<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(4517)
<223> v-yes-1 yamaguchi sarcoma viral oncogene
homolog 1 (YES1) gene.

<400> 304
gcggagccaa ggcacacggg tctgaccctt gggccggccc ggagcaagtg acacggaccg 60
gtcgcctatc ctgaccacag caaagcggcc cggagcccgc ggaggggacc tgacgggggc 120
gtaggcgccg gaaggctggg ggccccggag ccgggccggc gtggcccgag ttccggtgag 180
cggacggcgg cgcgcgcaga tttgataatg ggctgcatta aaagtaaaga aaacaaaagt 240
ccagccatta aatacagacc tgaaaatact ccagagcctg tcagtacaag tgtgagccat 300
tatggagcag aacccactac agtgtcacca tgtccgtcat ctt cagcaaa gggaacagca 360
gttaatttca gcagtctttc catgacacca tttggaggat cctcaggggt aacgcctttt 420
ggaggtgcat cttcctcatt ttcagtggtg ccaagttcat atcctgctgg tttaacaggt 480
ggtgttacta tatttgtggc cttatatgat tatgaagcta gaactacaga agacctttca 540
tttaagaagg gtgaaagatt t caaataatt aacaatacgg aaggagattg gtgggaagca 600
agatcaatcg ctacaggaaa gaatggttat atcccgagca attatgtagc gcctgcagat 660
tccattcagg cagaagaatg gtattttggc aaaatgggga gaaaagatgc tgaaagatta 720
cttttgaatc ctggaaatca acgaggtatt ttcttagtaa gagagagtga aacaactaaa 780
ggtgcttatt ccctttctat tcgtgattgg gatgagataa ggggtgacaa tgtgaaacac 840
tacaaaatta ggaaacttga caatggtgga tactatatca caaccagagc acaatttgat 900
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tggatgggaa catggaatgg aaccacgaaa gtagcaatca aaacactaaa accaggtaca 1140
atgatgccag aagctttcct tcaagaagct cagataatga aaaaattaag acatgataaa 1200
cttgttccac tatatg ctgt tgtttctgaa gaaccaattt acattgtcac tgaatttatg 1260
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tatattcacc gagatcttcg ggctgctaat attcttgtag gagaaaatct tgtgt gcaaa 1440
atagcagact ttggtttagc aaggttaatt gaagacaatg aatacacagc aagacaaggt 1500
gcaaaatttc caatcaaatg gacagctcct gaagctgcac tgtatggtcg gtttacaata 1560
aagtctgatg tctggtcatt tggaattctg caaacagaac tagtaacaaa gggccgagtg 1620
ccatatccag gtatggtgaa ccgtgaagta ctagaacaag tggagcgagg atacaggatg 1680
ccgtgccctc agggctgtcc agaatccctc catgaattga tgaatctgtg ttggaagaag 1740
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gcacaaatct gccaaaatat aaagaacttg tgtagatttt ctacaggaat caaaagaaga 1920
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gtaatgaagg acagtgaggc tcctgcttat ttataaatca tttccttttct ttttttcccc 2160
aaagtcagaa ttgctcaaag aaaattattt attgttacag ataaaacttg agagataaaa 2220
agctatacca taataaaatc taaaattaag gaatatcatg ggaccaaata attccattcc 2280
agtttttttaa agtttctt gc atttattatt ctcaaaagtt ttttctaagt taaacagtca 2340
gtatgcaatc ttaatatatg ctttcttttg catggacatg ggccaggttt ttcaaaagga 2400
atataaacag gatctcaaac ttgattaaat gttagaccac agaagtggaa tttgaaagta 2460
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tgtatgaggt tgcattgatt ttttaaggca atatataatt gaaactactg tccaatcaaa 2640
ggggaaatgt tttgatcttt agatagcatg caaagtaaga cccagcattt taaaagccct 2700
tttttaaaaa ctagacttcg tactgtgagt a ttgcttata tgtccttatg gggatgggtg 2760
ccacaaatag aaaatatgac cagatcaggg acttgaatgc acttttgctc atggtgaata 2820
tagatgaaca gagaggaaaa tgtatttaaa agaaatacga gaaaagaaaa tgtgaaagtt 2880
ttacaagtta gagggatgga aggtaatgtt taatgttgat gtcatggagt gacagaatgg 2940
ctttgctggc actcagagct cctcacttag ctatattctg agactttgaa gagttataaa 3000
gtataactat aaaactaatt tttcttacac actaaatggg tatttgttca aaataatgaa 3060

gttatggctt cacattcatt gcagtgggat atggttttta tgtaaaacat ttttagaact 3120
ccagttttca aatcatgttt gaatctacat tcacttttt ttgtt ttctt ttttgagacg 3180
gagtctcgct ctgccgccca ggctggagtg cagtggcgcg atctcggctc actgcaagct 3240
ctgcctccca ggttcacacc attctcctgc ctcagcctcc cgagtagctg ggactacagg 3300
tgcccaccac cacgcctggc tagtttttg tatttttagt agagacgcag tttcaccgtg 3360
ttagccagga tggtctcgat ctcctgacct tgtgatctgc ccgcctcggc ctcccaaagt 3420
gctgggatta caggtgtgag ccaccgcgcc cagcctacat tcacttctaa agtctatgta 3480
atggtggtca ttttttccct tttagaatac attaaatggt tgatttgggg aggaaaactt 3540
attctgaata ttaacggtgg tgaaaagggg acagttttta ccctaaagtg caaaagtga a 3600
acatacaaaa taagactaat ttttaagagt aactcagtaa tttcaaaata cagatttgaa 3660
tagcagcatt agtggtttga gtgtctagca aaggaaaaat tgatgaataa aatgaaggtc 3720
tggtgtatat gttttaaaat actctcatat agtcacactt taaattaagc cttatattag 3780
gccccctctat tttcaggata taattcttaa cta tcattat ttacctgatt ttaatcatca 3840
gattcgaaat tctgtgccat ggcgtatatg ttcaaattca aaccattttt aaaatgtgaa 3900
gatggacttc atgcaagttg gcagtggttc tggtactaaa aattgtggtt gtttttttctg 3960
tttacgtaac ctgcttagta ttgacactct ctaccaagag ggtcttccta agaagagtgc 4020
tgtcattatt tcctcttatc aacaacttgt gacatgagat tttttaaggg ctttatgtga 4080
actatgatat tgtaattttt ctaagcatat tcaaaagggt gacaaaatta cgtttatgta 4140
ctaaatctaa tcaggaaagt aaggcaggaa aagttgatgg tattcattag gttttaactg 4200
aatggagcag ttccttatat aataacaatt gtatagtagg gataaaa cac taacaatgtg 4260
tattcatttt aaattgttct gtatttttaa attgccaaga aaaacaactt tgtaaatttg 4320
gagatatttt ccaacagctt ttcgtcttca gtgtcttaat gtggaagtta acccttacca 4380
aaaaaggaag ttggcaaaaa cagccttcta gcacactttt ttaaatgaat aatggtagcc 4440
taaacttaat atttttataa a gtattgtaa tattgttttg tggataattg aaataaaaag 4500
ttctcattga atgcacc 4517

<210> 305
<211> 459
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_featur e
<222> (1)..(459)
<223> 3' terminal sequence. interferon -induced
protein 75, 52kd (IFI75) gene.

<400> 305
ncttgtctga aggtgtgctg gacacctcct ggggctcttc tgggtcattt ggttctggag 60
aattatctct tatctctggc atagagccca agggagagtg gggcatctct tgagggtctt 120
ctttatctct tatttggggg atcaggttgt cactggccac ttgcacagtg ctagtgagga 180
ggctgggcat ctcttctgag tcttctttcg cattcatttt ggangttaac ttgtcattgg 240
tcactgaagt gcttcttcct tcctgggatg agtgcaggga gaggcaggac agggtcagat 300
gggctgggcg actcactcag gatctcatcg ctttgctggg agg atgttcc agggctcact 360
gactcttggg cgcacaaggt gaaacagctt ggtttgaagg gggttnttgg tnggggggcaa 420
gcncaatngg gtatggaagg aagcttccct ctaanaagg 459

<210> 306
<211> 370
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artific ial Sequence:primer

<220>

<221> misc_feature
<222> (1)..(370)
<223> 5' terminal sequence. interferon -induced
protein 75, 52kd (IFI75) gene.

<400> 306
tgcgtttgtc aaagcacaga cttcctgttt tgcctgctag catctccctg taactctccc 60
aatcttgagg agtgatccct gtccc agccc ctggaaaggg anggaaacga caaactcaaa 120
gtccaggatg ttcaccatga caagagccat ggaagaggct ctttttcagc acttcatgca 180
ccagaagctg gggatcgcct atgccataca caagccattt cccttctttg aaggcctcct 240
agacaactcc atcatcacta agagaatgta catggaatct ctggaagcct gtagaaattt 300
gatccctgta tccagagtgg tgcacaacat tctcacccaa ctgggagagg actttttaac 360
ctgtnctctt 370

<210> 307
<211> 1541
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1541)
<223> interferon-induced protein 75, 52kd (IFI75)
gene.

<400> 307
aattccggca tcgctttgct gggaggatgt tccaggctca ctgactcttg gcgcacaggg 60
tgaacagctt ggttgagtcg cccagcccat ctgaccctgt cctgcctctc cctgcactca 120
tccaggaagg aagaagcact tcagtgacca atgacaagtt aacatccaaa atgaatgcgg 180
aagaagactc agaagagatg cccagcctcc tcactagcac tgtgcaagtg gccagtgaca 240
acctgatccc ccaaataaga gataaagaag accctcaaga gatgccccac tctcccttgg 300
gctctatgcc agagataaga gataattctc cagaaccaaa t gacccagaa gagccccagg 360
aggtgtccag cacaccttca gacaagaaag gaaagaaaag aaaaagatgt atctggtcaa 420
ctccaaaaag gagacataag aaaaaaagcc tcccaagagg gacagcctca tctagacacg 480
gaatccaaaa gaagctcaaa agggtggatc aggttcctca aaagaaagat gactcaactt 540
gtaactccac ggtagagaca agggcccaaa aggcgagaac tgaatgtgcc cgaaagtcga 600
gatcagagga gatcattgat ggcacttcag aaatgaatga aggaaagagg tcccagaaga 660
cgcctagtac accacgaagg gtcacacaag gggcagcctc acctgggcat ggcatccaag 720
agaagctcca agtggtggat aaggtgactc aaaggaaaga cgactcaacc tggaactcag 7 80
aggtcatgat gagggtccaa aaggcaagaa ctaaatgtgc ccgaaagtcc agatcgaaag 840
aaaagaaaaa ggagaaagat atctgttcaa gctcaaaaag gagatttcag aaaaatattc 900
accgaagagg aaaacccaaa agtgacactg tggattttca ctgttctaag ctccccgtga 960
cctgtggtga ggcgaaaggg attttatata agaagaaaat gaaacacgga tcctcagtga 1020
agtgcattcg gaatgaggat ggaacttggt taacaccaaa tgaatttgaa gtcgaaggaa 1080
aaggaaggaa cgcaaagaac tggaaacgga atatacgttg tgaaggaatg accctaggag 1140
agctgctgaa gcggaaaaac tcggatgaat gcgaggtgtg ctgtcaaggg ggacaacttc 1200
tctgctgcgg tact tgtcca cgagtcttcc atgaggactg tcacatcccc cctgtggaag 1260
ccaagaggat gctgtggagt tgcaccttct gcaggatgaa gaggtcttca ggaagccaac 1320
agtgccatca tgtatctaag accctggaga ggcagatgca gcctcaggac cagctgaatg 1380
tgagttcctc ctcttgaagg cctactgtca tccacaaagc tccttttta cgg gcatccc 1440
atttaatatt cgagattacg gtgagccttt caggaagcaa tgtggttgga cctggttaag 1500
ggaaaggctg attacggaaa tgtacacggt ggcccggaat t 1541

<210> 308
<211> 416
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequ ence:primer

<220>
<221> misc_feature
<222> (1)..(416)
<223> 3' terminal sequence. v -myb avian
myeloblastosis viral oncogene homolog -like 2
(MYBL2) gene.

<400> 308
gttannenan tnnatttttt aagagagagg caattttatt cttccaaaaa aatgcaccag 60
agagggtgag cacaggagca cccctggcca catcccccat cctaagcagg gtctgagatg 120
aggccaggnc tgacgtgggc ttgggagaag ctgacggagc tccctgtggc cttggggagg 180
gaaccaggca gacctgggaa gtggaacttt gttgttagca ccaggagccg cccacagctg 240
ggcttcggca acagggcagc acatggccct gttccttcca cctgagagt c tggggagggg 300
ctggtggcag aaggctccct gcaggaggtt cacctgaatg actctcagat tcacagaccc 360
cctnttgccc ccacaacccc tgtaaacatg agaatggggc tcgtgacacc ctnaac 416

<210> 309
<211> 426
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Se quence:primer

<220>
<221> misc_feature
<222> (1)..(426)
<223> 5' terminal sequence. v -myb avian
myeloblastosis viral oncogene homolog -like 2
(MYBL2) gene.

<400> 309
gaactcatca tcgaggacga catcaggccc gagaagcaga agaggaagcc tgggctgcgg 60
cggacccatt caagaaagtc cggaagtctc tggctcttga cattgtggat gaggatatga 120
agctgatgat gtccacactg cccaagtctc tatccttgcc gacaactgcc ccttcaaact 180
cttccagcct caccctgtca ggtatcaaag aagacaacag cttgctcaac cagggcttct 240
tgcaggccaa gcccgagaag gcagcagtgg cccagaagcc ccgaagc cac ttcacgacac 300
ctgcccctat gtccagtgcc tgggaagacg gtggcctgcg gggggaccag gggaccagct 360
tttcatggca ggagaaagcc cggcagcttc tggggccgct tgaagcccag ccacactttt 420
cgggac 426

<210> 310
<211> 2627
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(2627)
<223> v-myb avian myeloblastosis viral oncogene
homolog-like 2 (MYBL2) gene.

<400> 310
gctgacgcct tcgagcgcgg ccc ggggccc ggagcggccg gagcagcccg ggtcctgacc 60
ccggccccgc tcccgctccg ggctctgccg gcgggcgggc gagcgcggcg cggtccgggc 120
cgggggggatg tctcggcgga cgcgctgcga ggatctggat gagctgcact accaggacac 180
agattcagat gtgccggagc agagggatag caagtgcaag gtcaaatgga cccatgagga 240
ggacgagcag ctgagggccc tggtgaggca gtttggacag caggactgga agttcctggc 300
cagccacttc cctaaccgca ctgaccagca atgccagtac aggtggctga gagttttgaa 360
tccagacctt gtcaaggggc catggaccaa agaggaagac caaaaagtca tcgagctggt 420
taagaagtat ggcacaaagc agtggacact gattgccaag cacc tgaagg gccggctggg 480
gaagcagtgc cgtgaacgct ggcacaacca cctcaaccct gaggtgaaga agtcttgctg 540
gaccgaggag gaggaccgca tcatctgcga ggcccacaag gtgctgggca accgctgggc 600
cgagatcgcc aagatgttgc cagggaggac agacaatgct gtgaagaatc actggaactc 660
taccatcaaa aggaaggtgg ac acaggagg cttcttgagc gagtccaaag actgcaagcc 720
cccagtgtac ttgctgctgg agctcgagga caaggacggc ctccagagtg cccagcccac 780
ggaaggccag ggaagtcttc tgaccaactg gccctccgtc cctcctacca taaaggagga 840
ggaaaacagt gaggaggaac ttgcagcagc caccacatcg aaggaacagg agcccatcgg 900
tacagatctg gacgcagtgc gaacaccaga gcccttggag gaattcccga agcgtgagga 960
ccaggaaggc tccccaccag aaacgagcct gccttacaag tgggtggtgg aggcagctaa 1020
cctcctcatc cccgctgtgg gttctagcct ctctgaagcc ctggacttga tcgagtcgga 1080
ccctgatgct tggtgtgacc tgagtaaatt tgacctccct gaggaaccat ctgcagagga 1140
cagtatcaac aacagcctag tgcagctgca agcgtcacat cagcagcaag tcctgccacc 1200
ccgccagcct tccgccctgg tgcccagtgt gaccgagtac cgcctggatg gccacaccat 1260
ctcagacctg agccggagca gccggggcga gctgatcccc atctccccca gcactgaagt 1320
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ggctctgtcc cctgtcactg agaatagcac cagtctgtcc ttcctggatt cctgtaacag 1440
cctcacgccc aagagcacac ctgttaagac cctgcccttc tcgccctccc agtttctgaa 1500
cttctggaac aaacaggaca cattggagct ggagagcccc tcgctgacat ccac cccagt 1560
gtgcagccag aaggtggtgg tcaccacacc actgcaccgg gacaagacac ccctgcacca 1620
gaaacatgct gcgtttgtaa ccccagatca gaagtactcc atggacaaca ctccccacac 1680
gccaaccccg ttcaagaacg ccctggagaa gtacggaccc ctgaagcccc tgccacagac 1740
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catcgaggac gacatcaggc ccgagaagca gaagaggaag cctgggctgc ggcggagccc 1860
catcaagaaa gtccggaagt ctctggctct tgacattgtg gatgaggatg tgaagctgat 1920
gatgtccaca ctgcccaagt ctctatcctt gccgacaact gccccttcaa actcttccag 1980
cctcaccctg tcaggtatca aagaagacaa cagcttgctc aaccagggct tcttgcaggc 2040
caagcccgag aaggcagcag tggcccagaa gccccgaagc cacttcacga cacctgcccc 2100
tatgtccagt gcctggaaga cggtggcctg cgggggacc agggaccagc ttttcatgca 2160
ggagaaagcc cggcagctcc tgggccgcct gaagcccagc ca cacatctc ggaccctcat 2220
cttgtcctga ggtgttgagg gtgtcacgag cccattctca tgtttacagg ggttgtgggg 2280
gcagaggggg tctgtgaatc tgagagtcat tcaggtgacc tcctgcaggg agccttctgc 2340
caccagcccc tccccagact ctcaggtgga ggcaacaggg ccatgtgctg ccctgttgcc 2400
gagcccagct gtgggcg gct cctggtgcta acaacaaagt tccacttcca ggtctgcctg 2460
gttccctccc caaggccaca gggagctccg tcagcttctc ccaagcccac gtcaggcctg 2520
gcctcatctc agaccctgct taggatgggg gatgtggcca ggggtgctcc tgtgctcacc 2580
ctctcttggt gcatttttt ggaagaataa aattgcctct ctctttg 2627

<210> 311
<211> 442
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(442)
<223> 3' terminal sequence. transforming growth
factor, beta receptor iii (betaglyc an, 300kd)

(TGFBR3) gene.

<400> 311
cccagactca aggagttggt aaagggttaa tagccagata gtagaaccag tgaggagatg 60
cggccaaaga ttctttatat ctgaaccaag atgtaaaaca agaaatgctt tgaggctttc 120
taagcgatcc tcctgtctaa tttgcacctt tgtctggatg cacacttctg accttgctgc 180
cacaacctgt ggggttctga tgtgtccctt gatgggtgct gccctcaggg actgcaccct 240
gacaagtgtt aaggcaacat tcctttcttg tgcccggggc caaaaccaat gctgatgacc 300
ttatcagctt cctgtttctt cccatacttg catacaccac tggcaaaatg tcttaatggc 360
aaattttgta tttcttacag ggnctacagg aaatttgaaa atgg accaaa ttcagggaac 420
cacaggtttt gtggcccatt tc 442

<210> 312
<211> 315
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(315)
<223> 5' terminal sequence. transforming growth
factor, beta receptor iii (betaglycan, 300kd)
(TGFBR3) gene.

<400> 312
taacaaggag gtatcactga gcttatttta gctgcaaagt ggcatcatat tattccattt 60
aatgaaattc acctcaagcc ctttttgaca tattaaatat atgggatata tttaa ggcaa 120
gagaagtaag gcaatccaaa tgagtgccct tttccaatct cagcactgtc ttggnggaat 180
tggtgacact attcagataa ccaactggag accgacagat ttgccatgca tttgcatctt 240
gctagagttt ggtttttatg aaagggccta tttttttta agttgacata ttttgagtgg 300
gaaacactca ccta 315

<210> 313
<211> 4208
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(4208)
<223> transforming growth factor, beta receptor
iii (betaglycan, 300kd) (TGFBR3) gene.

<400> 313
tctttaagat ttgtagctac taagaaagaa aggagctttt tttccttggg ccttcaaact 60
gaaagaaccg catgagcctg acggcgcatg gtcttaacat caggctgtgc aggaagaagc 120
tatctgcaga tggatgccag cacacacaag gaagcagagc tctggcaaca ttgagtcaaa 180
gcaaggacac aacatcagag ggacggcaga gaatccttgt gtgtagtctt tggtggcagt 240
ttgaaaattg caaggaggga ctttaagact acttctgatt tgcaaagatg gtctgtgctc 300
cgagcaggct aaagtgactg gacgagacgc actgttggag aaataaaaat gacttcccat 360
tatgtgattg ccatctttgc cctgatgagc ttctgtttag cca ctgcagg tccagagcct 420
ggtgcactgt gtgaactgtc acctgtcagt gcctcccatc ctgtccaggc cttgatggag 480
agcttcactg ttttgtcagg ctgtgccagc agaggcacaa ctgggctgcc acaggaggtg 540

catgtcctga atctcgcact gcgccagggg cctggccagc tacagagaga ggtcacactt 600
cacctgaatc ccatctcctc a gtccacatc caccacaagt ctgttgtgtt cctgctcaac 660
tccccacacc ccctggtgtg gcatctgaag acagagagac ttgccactgg ggtctccaga 720
ctgtttttgg tgtctgaggg ttctgtggtc cagttttcat cagcaaactt ctccttgaca 780
gcagaaacag aagaaaggaa cttcccccat ggaaatgaac atctgttaaa ttgggcccga 840
aaagagtatg gagcagttac ttcattcacc gaactcaaga tagcaagaaa catttatatt 900
aaagtggggg aagatcaagt gttccctcca aagtgcaaca tagggaagaa ttttctctca 960
ctcaattacc ttgctgagta ccttcaaccc aaagcagcag aagggtgtgt gatgtccagc 1020
cagccccaga atgaggaagt acacatcatc gagctaatca ccccccaactc taacccctac 1080
agtgctttcc aggtggatat aacaattgat ataagacctt ctcaagagga tcttgaagtg 1140
gtcaaaaatc tcatcctgat cttgaagtgc aaaaagtctg tcaactgggt gatcaaatct 1200
tttgatgtta agggaagcct gaaaattatt gctcctaaca gtattggctt tggaaaagag 1260
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cctgtggcaa tagtatttca tcttcggctt gaaaataatg aggagatggg agatgaggaa 1440
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cagaacccgc ccatccgggg aggggaaggc caaaatggag gccttccgtt tcctttccca 1560
gatatttcca ggagagtctg gaatgaagag ggagaagatg ggctccctcg gccaaaggac 1620
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gataatggat ttccgggaga tatggatgaa ggagatgctt ccctgttcac ccgacctgaa 2040
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ccccacggaa acatcacctt caacatggag ctatacaaca ct gacctctt tttggtgccc 2160
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cctgatagga tgtctcatta caccattatt gagaatattt gtcctaaaga tgaatctgtg 2340
aaattctaca gtcccaa gag agtgcacttc cctatcccgc aagctgacat ggataagaag 2400
cgattcagct ttgtcttcaa gcctgtcttc aacacctcac tgctctttct acagtgtgag 2460
ctgacgctgt gtacgaagat ggagaagcac ccccagaagt tgcctaagtg tgtgcctcct 2520
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gtgatgggca ttgcgtttgc agcctttgtg atcggagcac tcctgacggg ggccttgtgg 2760
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gcctcggaaa acagcagtgc tgcccacagc atcggcagca cgcagagcac gccttgctcc 2880
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ctggattttg gttcccttgt aaagacagag tgaatttcag tataaagatc acccgttgta 3060
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agagaaaatt tgaaaatgtc cttatgcttt ta gagttgca acttaagtat atttggtagg 3900
gtgagtgttt ccactcaaaa tatgtcaact taaaaaaaaa taggcccttt cataaaaacc 3960
aaactgtagc aagatgcaaa tgcatggcaa atctgtcggt ctccagttgg ttatctgaat 4020
agtgtcacca attccaccaa gacagtgctg agattggaaa gggcactcat ttggattgcc 4080
ttacttctct tgccttaaat atatcccata tatttaatat gtcaaaaagg gcttgaggtg 4140
aatttcatta aatggaataa tatgatgcca ctttgcagct aaaataagct cagtgatacc 4200

tccttgtt 4208

<210> 314
<211> 468
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(468)
<223> 3' terminal sequence. peroxiredoxin 2
(PRDX2) gene.

<400> 314
tnnttttttt tttncacctt tccctaatac ttnatnggtn acctctaggc ctgtgtgcgg 60
ctgggtgggc ttgggggagg gcgtcactat tcagcttcta ggtggaggca tgagaaggcc 120
ttggctaggc cctccagggt cccatactgt ggagtttgga ggggcaggtc tggcctttcc 180
tgggtcagca tagggcaccc aggtgggggn acaggtggac acccagcaca ggcacctagg 240
caggggcaca agctcantat ccnttagcca gcctaattgt ntttgg agaa atattccttg 300
ctgtcatcca cgttgggttt aatcgtgtca ctgccaggtt tccagccagc gggacaaant 360
ttccccatgt tcgtttgtgt attgggaagg cctgggacca gccgcagagt tnatcccacg 420
gagngtccca aaggnaaatc attaaacagt gattttggcn aaggaaaa 468

<210> 315
<211> 394
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(394)
<223> 5' terminal sequence. peroxiredoxin 2
(PRDX2) gene.

<400> 315
acttcaaggc cacagcggtg gttgatggcg ccttcaaaga ggtga agctg tcggactaca 60
aagggaagta cgtggtcctc tttttctacc ctctggactt cacttttgtg tgccccaccg 120
agatcatcgc gttcagcaac cgtgcagagg acttccgcaa gctgggctgt gaagtgctgg 180
gcgtctcggg tggactctca gttcacccac ctggcttgga tcaacacccc ccggaaagag 240
ggaggcttgg gccccctgaa catc ccccctg cttgctgacg tgaccagacg cttgtctgag 300
gattacggcg tgctgaaaac agatgagggc attgctaaca ggggcctctt tatcatcgat 360
gggcaagggt gttcctttcg ccagatcaat gtta 394

<210> 316
<211> 937
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature
<222> (1)..(937)
<223> peroxiredoxin 2 (PRDX2) gene.

<400> 316
cgcggcccca gggctcactt ggcgctgaga acgcgggtgc agcgtgtgat cgtccgtgcg 60
tctagccttt gcccacgcag ctttcagtca tggcctccgg taacgcg cgc atcggaaagc 120
cagcccctga cttcaaggcc acagcggtgg ttgatggcgc cttcaaagag gtgaagctgt 180
cggactacaa agggaagtac gtggtcctct ttttctaccc tctggacttc acttttgtgt 240
gccccaccga gatcatcgcg ttcacaaccg tgaagaggac ttccgcaaag ctgggctgtg 300
aagtgctggg cgtctcggtg gactc tcagt tcacccacct ggcttggatc aacacccccc 360
ggaaagaggg aggcttgggc cccttgaaca tccccctgct tgctgacgtg accagacgct 420
tgtctgagga ttacggcgtg ctgaaaaacg atgagggcat tgcttacagg ggcctcttta 480
tcatcgatgg caagggtgtc cttcgccaga tcactgttaa tgatttgcct gtgggacgct 540
ccgtggatga ggctctgcgg ctggtccagg ccttccagta cacagacgag catggggaag 600
tttgtccggc tgcttggaag cctggacgtg acacgattaa gccgaacgtg gatgacagca 660
aggaatattt ctccaaacac aattaggctg gctaacggat agtgagcttg tgcccctgcc 720
taggtgcctg tgctgggtgt ccacctgtgc ccccacctgg gtgcc ctatg ctgacccagg 780
aaaggccaga cctgcccctc caaaatccac agtatgggac cctggagggc tagcaaggcc 840
ttctcatgcc tccacctaga agctgaatag tgacgccctc ccccaagccc acccagccgc 900
acacaggcct agaggtaacc aataaagtat tagggcc 937

<210> 317
<211> 451
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(451)
<223> 5' terminal sequence. v -fos fbj murine
osteosarcoma viral oncogene homolog (FOS) gene.

<400> 317
gctagcacca tgagctgaag accgagccct ttgatgactt cctgttccca gcatcatcca 60
ggcccagtgg ctctgagaca gcccgctccg tgccagacat ggacctatct gggtccttct 120
atgcagcaga ctgggagcct ctgcacagtg gctccctggg gatggggccc atggcacagn 180
agctggagcc cctgtgcact ccggtggtca cctgtactcc cagctgcact gctta cacgt 240
cttccttcgt cttcacctac cccgaggctg actncttccc cagctgtgca gctgcccacc 300
gcaaggcagc agcagcaatg agccttcctc tgactcgttc agctnaccca cggtgctggc 360
cctgtgaggg ggcaggggaa ggggaggcag ncggcaacna caagttgcca ttgtccgagt 420
tngttgattt anagagagga gaaacaaatt t 451

<210> 318
<211> 2084
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(2084)
<223> v-fos fbj murine osteosarcoma viral oncogene
homolog (FOS) gene.

<400> 318
aaccgcatct gcagcgagca actgagaagc caagactgag ccggcggccg cggcgcagcg 60
aacgagcagt gaccgtgctc ctacccagct ctgcttcaca gcgcccacct gtctccgccc 120
ctcggcccct cgcccggctt tgcctaaccg ccacgatgat gttctcgggc ttcaacgcag 180
actacgaggc gtcatcctcc cgctgcagca gcgcgtcccc ggccggggat agcctctctt 240
actaccactc acccgcagac tccttctcca gcatgggctc gcctgtcaac gcgcaggact 300
tctgcacgga cctggccgtc tccagtgcca acttcattcc cacggtcact gccatctcga 360
ccagtccgga cctgcagtgg ctggtgcagc ccgccctcgt ctcctctgtg gccccatc gc 420
agaccagagc ccctcaccct ttcggagtcc ccgccccctc cgctggggct tactccaggg 480
ctggcgttgt gaagaccatg acaggaggcc gagcgcagag cattggcagg aggggcaagg 540
tggaacagtt atctccagaa gaagaagaga aaaggagaat ccgaagggaa aggaataaga 600
tggctgcagc caaatgccgc aaccggagga gggagc tgac tgatacactc caagcggaga 660
cagaccaact agaagatgag aagtctgctt tgcagaccga gattgccaac ctgctgaagg 720
agaaggaaaa actagagttc atcctggcag ctcaccgacc tgcctgcaag atccctgatg 780
acctgggctt cccagaagag atgtctgtgg cttcccttga tctgactggg ggcctgccag 840
aggttgccac cccg gagtct gaggaggcct tcaccctgcc tctcctcaat gaccctgagc 900
ccaagccctc agtggaacct gtcaagagca tcagcagcat ggagctgaag accgagccct 960
ttgatgactt cctgttccca gcatcatcca ggcccagtgg ctctgagaca gcccgctccg 1020
tgccagacat ggacctatct gggtccttct atgcagcaga ctgggagcct ctgca cagtg 1080
gctccctggg gatggggccc atggccacag agctggagcc cctgtgcact ccggtggtca 1140
cctgtactcc cagctgcact gcttacacgt cttccttcgt cttcacctac cccgaggctg 1200
actccttccc cagctgtgca gctgcccacc gcaagggcag cagcagcaat gagccttcct 1260
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ccggcaccca caagtgccac tgcccgagct ggtgcattac agagaggaga aacacatctt 1380
ccctagaggg ttcctgtaga cctagggagg accttatctg tgcgtgaaac acaccaggct 1440
gtgggcctca aggacttgaa agcatccatg tgtggactca agtccttacc tcttccggag 1500
atgtagcaaa acgcatggag tgtgtattgt tcccagtgac acttcagaga gctggtagtt 1560
agtagcatgt tgagccaggc ctgggtctgt gtctcttttc tctttctcct tagtcttctc 1620
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aattgtatct agtgcagctg attttaacaa taactactgt gtt cctggca atagtgtgtt 1740
ctgattagaa atgaccaata ttatactaag aaaagatacg actttatttt ctggtagata 1800
gaaataaata gctatatcca tgtactgtag tttttcttca acatcaatgt tcattgtaat 1860
gttactgatc atgcattgtt gaggtggtct gaatgttctg acattaacag ttttccatga 1920
aaacgtttta ttgtgtttt tt aatttattta ttaagatgga ttctcagata tttatatttt 1980
tattttattt ttttctacct tgaggtcttt tgacatgtgg aaagtgaatt tgaatgaaaa 2040
atttaagcat tgtttgctta ttgttccaag acattgtcaa taaa 2084

<210> 319
<211> 240
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(240)
<223> 3' terminal sequence. retinoblastoma -binding
protein 7 (RBBP7) gene.

<400> 319
ctgcaaagcc aatcaagaag tgttggaagg aaaaagtgta aaagttattc ttgcatattt 60
gggaacagca agcacttagt ttgagaaaat gaggacttaa aacagttgan tcaaaggcaa 120
taccctgcta cttgtattta aaatcaatgg tgatgttatt tcttangcaa cattcttctc 180
ttccctaata gctacaatnt gatacagtac gcaacagctc acttgaaagt gctagantca 240

<210> 320

<211> 457
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(457)
<223> 5' terminal sequence. retinoblastoma -binding
protein 7 (RBBP7) gene.

<400> 320
agatgtttga agatactgtg gaggagcgtg tcatcaatga agaatat aaa atctggaaga 60
agaatacacc gtttctatat gacctggtta tgacccatgc tcttcagtgg cccagtctta 120
ccgttcagtg gcttcctgaa gtgactaaac ctgaaggaaa agattatgcc cttcattggc 180
tagtgctggg gactcatacg tctgatgagc agaatcatct ggtggttgct cgagtacata 240
ttcccaatga tgatgcacag tttgat gctt cccattgtga cagtgacaag ggtgaatttg 300
gtggctttgg ttctgtaaca ggnaaaattg aatgtgaaat taaaatcaat tcacgaagga 360
gaagttaaac cgtgctcgtt aacatggccg cagantcctt cacatccatt gcttacaaan 420
acacccctctt gcttgatggt gttggntttt tgactat 457

<210> 321
<211> 1946
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1946)
<223> retinoblastoma -binding protein 7 (RBBP7)
gene.

<400> 321
gcctcgtcag ctgcctgggc gggc tgggag gcgcgggttg aaaagtctcg ttccaagttt 60
ggagagagag agaagagcgc ctcagacctc ggtacccgcg agcggggagg aggcaggaaa 120
gaaggacgcg gcgtctgggg agcacccagg cagcaagacg gggcccgggc tttcgacagt 180
ggggagtgtg acgcgcttgg gaaaggcagg agcgccagcg gtcgggctgc tcttggctaa 240
cgagaggagt ccgaggcggc ggcgaggggc gaacgacccg acgcaagatg gcgagtaaag 300
agatgtttga agatactgtg gaggagcgtg tcatcaatga agaatataaa atctggaaga 360
agaatacacc gtttctatat gacctggtta tgacccatgc tcttcagtgg cccagtctta 420
ccgttcagtg gcttcctgaa gtgactaaac ctgaaggaaa agatt atgcc cttcattggc 480
tagtgctggg gactcatacg tctgatgagc agaatcatct ggtggttgct cgagtacata 540
ttcccaatga tgatgcacag tttgatgctt cccattgtga cagtgacaag ggtgaatttg 600
gtggctttgg ttctgtaaca ggaaaaattg aatgtgaaat taaaatcaat cacgaaggag 660
aagtaaaccg tgctcgttac atg ccgcaga atcctcacat cattgctaca aaaacaccat 720
cttctgatgt gttggttttt gactatacaa aacaccctgc taaaccagac ccaagtggag 780
aatgtaatcc tgatctcaga ttaagaggtc accagaagga aggctatggt ctctcctgga 840
attcaaattt gagtggacat ctcctaagtg catctgatga ccatactgtt tgtctgtggg 900
atataaacgc aggaccaaaa gaaggcaaaa ttgtggatgc taaagccatc tttactggcc 960
actcagctgt tgtagaggat gtggcctggc acctgctgca cgagtcattg tttggatctg 1020
ttgctgatga tcagaaactt atgatatggg acaccaggtc caataccacc tccaagccga 1080
gtcacttggt ggatgcgcac actgccgaag tcaactgcct c tcattcaat ccctacagcg 1140
aatttattct agccaccggc tctgcggata agaccgtagc tttatgggat ctgcgtaact 1200
taaaattaaa actccatacc ttcgaatctc ataaagatga aattttccag gtccactggt 1260
ctccacataa tgaaactatt ctggcttcaa gtggtactga ccgccgcctg aatgtgtggg 1320

atttaagtaa aattggggaa gaacaatcag cagaagatgc agaagatggg cctccagaac 1380
tcctgtttat tcatggagga cacactgcta agatttcaga ttttagctgg aaccccaatg 1440
agccttgggt catttgctca gtgtctgagg ataacatcat gcagatatgg caaatggctg 1500
aaaatattta caatgatgaa gagtcagatg tcacgacatc cgaactggag ggaca aggat 1560
cttaaaccca aagtacgaga aatgtttctg ttgaatgtaa tgctacatga atgcttgatt 1620
tatcaagcgc caaaaaggca ttgtatagta ggaaatgtaa gtggggtggc ttatggcttc 1680
tttatcctct gattctagca ctttcaagtg agctgttgcg tactgtatca tattgtagct 1740
attagggaag agaagaatgt tgcttaagaa agaacatcac cattgatttt aaatacaagt 1800
agcagggtat tgcctttgat tcaactgttt taagtcctca ttttctcaaa ctaagtgctt 1860
gctgttccca aatatgcaag aataactttt acacttttc cttccaacac ttcttgattg 1920
gctttgcaga aataaagttt taaaat 1946

<210> 322
<211> 365
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(365)
<223> 3' terminal sequence. kiaa1075 protein
(KIAA1075) gene.

<400> 322
tatagaaatt ctttattatt a gacaaaaat agactctctt ttttccccta ttcatgtgat 60
cctactctga atctctgctc agaggaggca gtgactcgct ccccacccct ctcccatccc 120
tgccgtgctg gcacctgcag ctgggtggaa ctggcagggg ctgatcccct gggagggctg 180
acgttctcct gcaggtgggg ctgcctgatc tccttcgggg ctcaactgct gatgcctcct 240
cacccctcac acacccatct ctgccatctg ctcacatggc aagggtcatc ttgtggggcc 300
tggtccactt taacttaggc agggctgggg ggcgggggaa gggagaggca gtgttcccag 360
gggcc 365

<210> 323
<211> 400
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(400)
<223> 5' terminal sequence. kiaa1075 protein
(KIAA1075) gene.

<400> 323
tcaagggctg ccccagtgag ccctactttg gcagcctgtc cgccttggtc tcccagcact 60
ccatctcccc catctccctg ccctgctgcc tgcgcattcc cagcaaagat cctctggaag 120
agaccccaga ggctccagtg cccaccaaca tgagcacagc gncagacctc ctgcgtcagg 180
gtgctgcctg caggtngctc tacttgacct cagtggagac agagtcactg acgggccccc 240
aagctgtggc ccgggccagc tctgcagctc tgagctgta g ccccgcccg acaccagctg 300
ttgtccactt caaggtgtca gcccagggca ttnacactga cgggacaacc aaaggaagct 360
ctttnttttc gccgccatta tccagtggaa cagcatcacc 400

<210> 324
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(489)
<223> 5' terminal sequence. atp-binding cassette,
sub-family c (cftr/mrp), member 5 (ABCC5) gene.

<400> 324
nttcggcaca gnaagataca actctgtgct gaacagctgc tgcctgaggc tgacctggcc 60
attcttccca gcagcgacct gacggagatt ggagagcgag tancaacctg agcggtgggc 120
agcgcagagg atcagccttg cccgggcctt gtatagtgac aggagcatct acatcctgga 180
cgaccccctc agtgccttag atgcccatgt ggaanccaca tncttcaata gtgctatccg 240
gaaacatctc aagtccaaga cagttctgtt tgttacccac cagt tacagt acctgggttg 300
actgtgatga agtgatcttc atgaaagagg gctgtattta cgggaaagag ggcacccntg 360
gagggaantg atggatttta aatggtgatt atggttacct ttttaattaa cntgttgttg 420
ggggagagac accgccattg agntcatttc aaaaagggga accgtnggtt cacagaggag 480
ttcacagtt 489

<210> 325
<211> 5838
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(5838)
<223> atp-binding cassette, sub-family c
(cftr/mrp), member 5 (ABCC5) gene.

<400> 325
ccgggcaggt ggctcatgct cgggagcgtg gttgagcggc tggcgcggtt gtcctggagc 60
aggggcgcag gaattctgat gtgaaactaa cagtctgtga gccctggaac ctccgctcag 120
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<210> 326
<211> 385
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(385)
<223> 3' terminal sequen ce. cadherin 1, type 1,
e-cadherin (epithelial) (CDH1) gene.

<400> 326
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tnctcagctt gaattgtttt ccttttccac ccccaaagaa aatacacaat tatcagcacc 120
cacacatgta tacactcaaa actacagtga catt ctctac acagnnctat attcgatata 180
gcttgaactg ccgaaaaatc angacaattc caaaaggtga ttgcagggtt gatttttttc 240
tccaaaacac ttgaganaca gtaaagctat ttcaacaaag gtctttnctt tgattgtcaa 300
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ccctcancta ac ccccctttg gggcc 385

<210> 327
<211> 423
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(423)
<223> 5' terminal sequence. cadherin 1, typ e 1,
e-cadherin (epithelial) (CDH1) gene.

<400> 327
ggcacgagca aganaggagt tctctgatgc agaaattatt gggctctttt agggtaagaa 60
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ggg 423

<210> 328
<211> 4828
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(4828)
<223> cadherin 1, type 1, e-cadherin (epithelial)
(CDH1) gene.

<400> 328
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<210> 329
<211> 471
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(471)
<223> 5' terminal sequence. zinc finger protein
144 (mel-18) (ZNF144) gene.

<400> 329
attcggcaca tgattccact tccgtttccc agggcaacgc tccccagtcc ccccaccc cc 60
gaccccggaa tcatgcatcg gactacacgg atcaaaatca cagagctgaa cccccacctc 120

atgtgtgccc tctgcggggg gtacttcatc gacgccacca ctatcgtgga gtgcctgcat 180
tccttctgca aaacctgcat cgtgcgctac ctggagacca acaaatactg ccccatgtgt 240
gacgtgcagg tccataaaac ccggccgctg ctgagca ttc aggtctgaca aaacatttca 300
agacattgtc ttacaaattg gtccctgggg ctttttaaag atggagattg aaacgggcgg 360
cgggatttct tatggcaggc gttacccctt ggacgggagg ttcccccaac ggnttccaat 420
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<210> 330
<211> 2227
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(2227)
<223> zinc finger protein 144 (mel -18) (ZNF144)
gene.

<400> 330
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cagcctctgg tccccagagc ggactttgga agctgaactg cttttgttgc tggaagactt 120
atgttataat ttaccctggg tggaccaggg tcgtacaaaa gggcaacgct ccccagtccc 180
cccactcccg accccggaat catgcatcgg actacacgga tcaaaatcac agagctgaac 240
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atctaccccct ggcggcggaa cgggcctctc cccctcaagt accgtgtcca gccagcctgc 900
aagcggctca ccctagccac ggtgcccacc ccctccgagg gcaccaacac cagcggggcg 960
tccgagtgtg agtcagtcag cgacaaggct cccagccctg ccaccctgcc agccacctcc 1020
tcctccctgc ccagcccagc caccccatcc catggctctc ccagttccca tgggcctcca 1080
gccacccacc ctacctcccc cactcccccct tcgacagcca gtggggccac c acagctgcc 1140
aacgggggta gcttgaactg cctgcagaca ccatcctcca ccagcagggg gcgcaagatg 1200
actgtcaacg gcgctcccgt gccccccctta acttgaggcc agggaccctc tcccttcttc 1260
cagccaagcc tctccactcc ttccactttt tctgggccct tttttccact tcttctactt 1320
tccccagctc ttcccacctt gggggt gggg ggcgggtttt ataaataaat atatatatat 1380
atgtacatag gaaaaaccaa atatacatac ttatttttcta tggaccaacc agattaattt 1440
aaatgccaca ggaaacaaac tttatgtgtg tgtgtatgtg tggaaaatgg tgttcatttt 1500
ttttgggggg ggtcttgtgt aatttgctgt ttttgggggt gcctggagat gaactggatg 1560
ggccactgga gtctcaataa agctctgcac catcctcgct gtttcccaag gcaggtggtg 1620
tgttgggggc cccttcagac ccaaagcttt aggcatgatt ccaactggct gcatatagga 1680
gtcagttaga attgtttctt tctctccccg tttctctccc catcttggct gctgtcctgc 1740
ctctgaccag tggccgcccc ccgcgttgtt gaatgtccag aaattgctaa gaacagtgcc 1800
ttttacaaat gcagtttatc cctggttctg aggagcaagt gcagggtgga ggtggcacct 1860
gcatcacctc ctcctcttgc agtggaaact ttgtgcaaag aatagatagt tctgcctctt 1920
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aggccctgag aggt ctcagc tcttggagga gggctaaggc tttagcattg tgaagcgctg 2040
caccccccacc aaccttaccc tcaccgggga accctcacta gcaggactgg tggtggagtc 2100
tcacctgggg cctagagtgg aagtgggggt gggttaacct cacacaagca cagatcccag 2160
actttgccag aggcaaacag ggaattccgc cgatactgac gggctccagg agt cgtcgcc 2220
acactcg 2227

<210> 331
<211> 254
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(254)
<223> 3' termina l sequence. macrophage stimulating
1 (hepatocyte growth factor -like) (MST1) gene.

<400> 331
gcataaagag gaaacatggc tttatgtctg acaagaagtt ttgtcctccc caaggcatat 60
ggcatcaagg ctgggctaac ccagtctcat gaccttgtga atccagtcca caaacacaga 120
gacacgcgtg aagac agctg gccagcggga ccttgcgcat actcggttgg ggattataat 180
tccttccagg gacccagcag ttgtgggtaa agcaggcaag tgggccccg tagtcaccct 240
cacaggcccc caca 254

<210> 332
<211> 362
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(362)
<223> 5' terminal sequence. macrophage stimulating
1 (hepatocyte growth factor -like) (MST1) gene.

<400> 332
gccatggncc tggtgctaca cgatggaccc aaggacccca t tcgactact gtgccctgcg 60
acgctgcgct gatgaccagc cgccatcaat cctggacccc ccagaccagg tgcagtttga 120
gaagtgtggc aagagggtgg atcggctgga tcagcggcgt tccaagctgc gctggttggg 180
ggccatccgg gcaactcacc ctggacagtc agcttgcgga atcggcaggg ccagcatttc 240
tgcgggnggt ctctagtgaa ggagcagtng atactgactn cccggaagtg cttctcctcc 300
tnccatatnc ctctcacggg ctatgaggta tggttngggc ancctttttc cagaacccac 360
ag 362

<210> 333
<211> 2219
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(2219)
<223> macrophage stimulating 1 (hepatocyte growth
factor-like) (MST1) gene.

<400> 333
agccagaagg atggggtggc tcccactcct gctgcttctg actcaatgct taggggtccc 6 0
tgggcagcgc tcgccattga atgacttcca agtgctccgg ggcacagagc tacagcacct 120
gctacatgcg gtggtgcccg ggccttggca ggaggatgtg gcagatgctg aagagtgtgc 180
tggtcgctgt gggcccttaa tggactgccg ggccttccac tacaacgtga gcagccatgg 240
ttgccaactg ctgccatgga ctcaacactc gccccacacg aggctgcggc gttctgggcg 300
ctgtgacctc ttccagaaga aagactacgt acggacctgc atcatgaaca atggggttgg 360
gtaccggggc accatggcca cgaccgtggg tggcctgccc tgccaggctt ggagccacaa 420
gttcccgaat gatcacaagt acacgcccac tctccggaat ggcctggaag agaacttctg 480
ccgtaaccct gatggcgac c ccggaggtcc ttggtgctac acaacagacc ctgctgtgcg 540
cttccagagc tgcggcatca aatcctgccg ggaggccgcg tgtgtctggt gcaatggcga 600
ggaataccgc ggcgcggtag accgcacgga gtcagggcgc gagtgccagc gctgggatct 660
tcagcacccg caccagcacc ccttcgagcc gggcaagttc ctcgaccaag gtctggacga 720
caactattgc cggaatcctg acggctccga gcggccatgg tgctacacta cggatccgca 780
gatcgagcga gagttctgtg acctcccccg ctgcgggtcc gaggcacagc cccgccaaga 840
ggccacaact gtcagctgct tccgcgggaa gggtgagggc taccggggca cagccaatac 900
caccactgcg ggcgtacctt gccagcgttg ggacgcgca a atcccgcatc agcaccgatt 960
tacgccagaa aaatacgcgt gcaaagacct tcgggagaac ttctgccgga accccgacgg 1020
ctcagaggcg ccctggtgct tcacactgcg gcccggcatg cgcgcggcct tttgctacca 1080
gatccggcgt tgtacagacg acgtgcggcc ccaggactgc taccacggcg caggggagca 1140
gtaccgcggc acgg tcagca agacccgcaa gggtgtccag tgccagcgct ggtccgctga 1200
gacgccgcac aagccgcagt tcacgtttac ctccgaaccg catgcacaac tggaggagaa 1260
cttctgccgg aacccagatg gggatagcca tgggccctgg tgctacacga tggacccaag 1320
gaccccattc gactactgtg ccctgcgacg ctgcgctgat gaccagccgc cat caatcct 1380
ggacccccca gaccaggtgc agtttgagaa gtgtggcaag agggtggatc ggctggatca 1440
gcggcgttcc aagctgcgcg tggttggggg ccatccgggc aactcaccct ggacagtcag 1500
cttgcggaat cggcagggcc agcatttctg cgggggtct ctagtgaagg agcagtggat 1560
actgactgcc cggcagtgct tctcctcc tg ccatatgcct ctcacgggct atgaggtatg 1620
gttgggcacc ctgttccaga acccacagca tggagagcca agcctacagc gggtcccagt 1680
agccaagatg gtgtgtgggc cctcaggctc ccagcttgtc ctgctcaagc tggagagatc 1740
tgtgaccctg aaccagcgtg tggccctgat ctgcctgccc cctgaatggt atgtggtgcc 1800
tccagggacc aagtgtgaga ttgcaggctg gggtgagacc aaaggtacgg gtaatgacac 1860
agtcctaaat gtggcctttc tgaatgttat ctccaaccag gagtgtaaca tcaagcaccg 1920
aggacgtgtg cgggagagtg agatgtgcac tgagggactg ttggcccctg tgggggcctg 1980
tgagggtgac tacgggggcc cacttgcctg ctttacccac a actgctggg tcctggaagg 2040
aattataatc cccaaccgag tatgcgcaag gtcccgctgg ccagctgtct tcacgcgtgt 2100
ctctgtgttt gtggactgga ttcacaaggt catgagactg ggttaggccc agccttgatg 2160
ccatatgcct tggggaggac aaaacttctt gtcagacata aagccatgtt tcctcttta 2219

<210> 334
<211> 431
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(431)
<223> 3' terminal sequence. glutathione
s-transferase pi (GSTP1) gene.

<400> 334
gaaaggaagg caaactctgc cnccc gctca gagtcccccc aaccctcact gtttcccgtt 60
gccattgatg gggaggttca cgtactcagg ggaggccagg naggcntgna gcttgggccg 120
ggcactgagg cgccccacat atgctgagag caggggggaac gcatccaggc agccagggct 180
agggaccnca tggatcagca gcaagtccag caggttntag tcagcgaagg agntctggtc 240
tcccacaatg aaggtcttgc ctccctggtt ctgggacagc agggtctcaa aaggcttcag 300

ttgcccgggc agtgccttca catagtcatc cttgcccgcc tcatagttgg tntagatgag 360
ggagatgtat ttgcagcgga ggtcctccac gccgttcatt tcacctgtcc accagggctg 420
nctccntttt t 431

<210> 335
<211> 305
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(305)
<223> 5' terminal sequence. glutathione
s-transferase pi (GSTP1) gene.

<400> 335
nattcggcac aggtcgccac catgccgccc tacaccgtgg tctatttccc agttcgaggc 60
cgctgcctgt cggcaatgct gctggcagat cagggccaga gctggaagga ggaggtngtg 120
accgtggaga cgtggcagga gggctcactc aaagcctcct gcctatacgg gcagctcccc 180
aagttccagg acggagacct naccctgtac cagt ccaata ccatcctgcg tcacctgggc 240
cgcacccttg ggctnctatg ggaaggacca gcaggangca gccctggtgg acatngtgaa 300
tgacg 305

<210> 336
<211> 737
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(737)
<223> glutathione s-transferase pi (GSTP1) gene.

<400> 336
ggagtttcgc cgccgcagtc ttcgccacca tgccgcccta caccgtggtc tatttcccag 60
ttcgaggccg ctgcgcggcc ctgcgcatgc tgctggcaga tcagg gccag agctggaagg 120
aggaggtggt gaccgtggag acgtggcagg agggctcact caaagcctcc tgcctatacg 180
ggcagctccc caagttccag gacggagacc tcaccctgta ccagtccaat accatcctgc 240
gtcacctggg ccgcaccctt gggctctatg ggaaggacca gcaggaggca gccctggtgg 300
acatggtgaa tgacggcgtg gag gacctcc gctgcaaata catctccctc atctacacca 360
actatgaggc gggcaaggat gactatgtga aggcactgcc cgggcaactg aagccttttg 420
agaccctgct gtcccagaac cagggaggca agaccttcat tgtgggagac cagatctcct 480
tcgctgacta caacctgctg gacttgctgc tgatccatga ggtcctagcc cctggctgcc 540
tggatgcgtt ccccctgctc tcagcatatg tggggcgcct cagcgcccgg cccaagctca 600
aggccttcct ggcctcccct gagtacgtga acctccccat caatggcaac gggaaacagt 660
gagggttggg gggactctga gcgggaggca gagtttgcct tcctttctcc aggaccaata 720
aaatttctaa gagagct 737

<210> 337
<211> 372
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(372)
<223> 3' terminal sequence. b-cell cll/lymphoma 2 (BCL2) gene.

<400> 337
gtgggnctgt gttgaaacag gccacgtaaa gcaactctct aaaggtcaaa ccaccataga 60
tttgaatctg ctggtcattc gccatctgga tttttaactg aatgaatctc atgggtttaa 120
ccaaacatgc atgtaatcct gaataccatg anttaaatgc gganttgccc agggacgagg 180
aaaccttcaa gaaacaaggt caaagggaca ncagatata a ctgtcacant aaacanttct 240
gttgacgtgg gaaatgcaca tgacttggtt gaaacaaagc tcctcagtgg gccagtgaca 300
tccngggttt ttcttagggt aggctgagga ctcaggggct tatctcacct tctcaggaat 360
gctttttgaa gg 372

<210> 338
<211> 508
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(508)
<223> 5' terminal sequence. b-cell cll/lymphoma 2 (BCL2) gene.

<400> 338
nttcggcaca gacttttttt aagctaccaa ttg tgccgag aaaagcattt tagcaattta 60
tacaatatca tccagtacct taaaccctga ttgtgtatat tcatatattt tggatacgca 120
ccccccaact cccaatactg gctctgtctg agtaagaaac agaatcctct ggaacttgag 180
gaagtgaaca tttcggtgac ttccgcatca ggaaggctag agttacccag agcatcaggc 240
cgccacaagt gcctgctttt aggagaccga agtccgcaga acctgcctgt gtcccagctt 300
ggaggcctgg gtcctgggaa ctgagccggg gccctcactg gccttccttc caggggatgg 360
atcaacaggg gcagtgtggt cttccgaatg tctgggaagc tgatgggagc tcaganttttc 420
cactgtcaag aaagaggcag ttaggagggg tttgggtggg gcttgttcac ctgg ggggcc 480
ttccaggtag ggccctttt aagtggga 508

<210> 339
<211> 445
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(445)
<223> 3' terminal sequence. proliferating cell nuclear antigen (PCNA) gene.

<400> 339

ttttttttant caaaagtttg aaattcaagt aactttattt aaattcaaaa acaattctta 60
aaactgcatt tagagtcaag acccttttgt attataaaaa tcacaagtat ttctaagaga 120
caaaaatact tctaggttaa ctagaccaga tctgactt tg gactttattc tttaaacaan 180
ttgcagagan tagagaaaaa antaggttat ttacagaaaa caatatctac atatgtactt 240
ngnggtacaa ntttgggtga cagaaaagac ttcaggtata tgctgggcat cttaggaagn 300
cagttctcaa agggncttag gttttatttn cttggatttt taaggattgc cctaagganc 360
ccttcttcat cctcgn tctt gggggnggcc aggtaggtnt tttaggtgtc cccntatccc 420
gantttttata ctctncaccg ggggg 445

<210> 340
<211> 437
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(437)
<223> 5' terminal sequence. proliferating cell
nuclear antigen (PCNA) gene.

<400> 340
gctccagcgt tgtaaacctg cagagatgga ctcgtcccac gtctctttgg tgcagctcac 60
cctgcggtct gagggcttcg acacctaccg ctgcgaccgc aacctggcca tggggtgaac 120
ctcaccagta tgtccaaaat actaaaatgc gccggcaatg aagatatcat tacactaagg 180
gccgaagata acgcggatac cttggcgcta gtatttgaag caccaaacca ggagaaagtt 240
tcagactatg aaatgaagtt gatggattta gatgttgaac aacttngaat tccagaacag 300
gagtacagct gtgtagtaaa gatgccntct ggtgaatttg c acgtatatg ccgagatctc 360
agccatattg ggagatgctg ttgtaatttc ctgtgncaaa agacgggagt gaaaattttt 420
ctgcaagtgg gagnact 437

<210> 341
<211> 1231
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1231)
<223> proliferating cell nuclear antigen (PCNA)
gene.

<400> 341
aggtctcagc cggtcgtcgc gacgttcgcc cgctcgctct gaggctcctg aagccgaaac 60
tagctagact ttcctccttc ccgcctgcct gtagcggcgt tgttgccact ccgccaccat 120
gttcgaggcg cgcctggtcc agggctccat cctcaagaag gtgttggagg cactcaagga 180
cctcatcaac gaggcctgct gggatattag ctccagcggt gtaaacctgc agagcatgga 240
ctcgtcccac gtctctttgg tgcagctcac cctgcggtct gagggcttcg acacctaccg 300
ctgcgaccgc aacctggc ca tgggcgtgaa cctcaccagt atgtccaaaa tactaaaatg 360
cgccggcaat gaagatatca ttacactaag ggccgaagat aacgcggata ccttggcgct 420
agtatttgaa gcaccaaacc aggagaaagt ttcagactat gaaatgaagt tgatggattt 480
agatgttgaa caacttggaa ttccagaaca ggagtacagc tgtgtagtaa agatgccttc 540
tggtgaattt gcacgtatat gccgagatct cagccatatt ggagatgctg ttgtaatttc 600
ctgtgcaaaa gacggagtga aattttctgc aagtggagaa cttggaaatg gaaacattaa 660

attgtcacag acaagtaatg tcgataaaga ggaggaagct gttaccatag agatgaatga 720
accagttcaa ctaacttttg cactgaggta cctgaact tc tttacaaaag ccactccact 780
ctcttcaacg gtgacactca gtatgtctgc agatgtaccc cttgttgtag agtataaaat 840
tgcggatatg ggacacttaa aatactactt ggctcccaag atcgaggatg aagaaggatc 900
ttaggcattc ttaaaattca agaaaataaa actaagctct ttgagaactg cttctaagat 960
gccagcatat actgaa gtct tttctgtcac caaatttgta cctctaagta catatgtaga 1020
tattgttttc tgtaaataac ctatttttt tctctattct ctccaatttg tttaaagaat 1080
aaagtccaaa gtctgatctg gtctagttaa cctagaagta tttttgtctc ttagaaatac 1140
ttgtgatttt tataatacaa aagggtcttg actctaaatg cagttttaag aagtg ttttt 1200
gaatttaaat aaagttactt gaatttcaaa c 1231

<210> 342
<211> 383
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(383)
<223> 3' terminal sequence. adenovirus 5 e1a
binding protein (BS69) gene.

<400> 342
ttttttttt aaacacacan gttttcacgc tgtagtaact tggaaatgtg caacccgtgt 60
caacagagac agaaaagcca aagtaacacg aatctcactt tcatgcagct atcagttaaa 120
tattacatac tctggaatga ttttacacca aaaatattt c cacaattact tgctctcata 180
ggggtggatc gaagtcttaa aacttgaaaa acaatcaaag aaggttaagt gttctcggtt 240
ctgacatctc catcagcgcc acacactgtg gngaacactg gactaattac acagcaacaa 300
ggaggggaac gatgatgcca agttactgca taatttaggg tacattgtat ggaatggggg 360
gctactgggg gtactttttt tac 383

<210> 343
<211> 483
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(483)
<223> 5' terminal sequence. adenovirus 5 e1a
binding protein (BS69) gene.

<400> 343
gttnaaattg cagggactgg ggtaatcttt tactgagctg gatcttagag aaaatgaata 60
tttaaatttt aaagtttgca catttcatct ttgtcctaac atgagtgctt gtaacaaaat 120
aaacaacaaa aacaaagcca aaaactacct ttatccatat gtgaaattat agatgaggca 180
tacgaatttg tttaatgctt cccttccctt cccacatatc atctcactgc ctattatctg 240
gtgtcacctc atgtatcgta agttaatact aaaagaagag aaagcactta agtttcacag 300
aagccgttat gtttgtaggt aatggggtca ttgcctaatg gaactccatc actgtacaca 360
gaatgaagga nttaatgcca tgttaatttt cttgttattt aagg atgccg tggatttggt 420
aaaaggtctg gtattttgcg gggatgtctg gggttaggga ggccttaccc ataggggntg 480
ggg 483

<210> 344
<211> 2722
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(2722)
<223> adenovirus 5 ela binding protein (BS69)
gene.

<400> 344
ggagcataat gctaaagaag taaacaggtc atggcacgtt taacaaaaag acgacaggcg 60
atacaaaagc tatccagcat ctttgggcag ccattgagat tata cggaac cagaagcaga 120
ttgccaacat tgaccgtatt acaaaatgtg aaacaactac attattcttg aacctatggt 180
gatttttaca tcattacaca gatatgtcat tttcattagt tgtatcattg ttataaactg 240
gtatatgtct cgagtccacg gtatgcaccc taaagagacc acccgtcagc tgagcttagc 300
tgtgaaagat ggtcttattg tc gaaactct aacagtgggc tgcaaaggtt caaaagctgg 360
tattgaacaa gaaggatatt ggttgccagg agatgagatt gactgggaaa cagaaaatca 420
tgactggtat tgttttgaat gccatttgcc tggagaggtg ttgatatgtg acctgtgttt 480
tcgtgtgtat cattccaagt gtttgtctga tgagttcagg cttagagaca gcagtagtcc 540
ctggcagtgc ccagtttgca ggagcattaa gaagaagaat acaaacaaac aggagatggg 600
cacatacctc agattcattg tctcccgcat gaaggagagg gctatagatc ttaataaaaa 660
ggggaaggac aataaacacc cgatgtacag gaggctggtg cactcagctg tggacgttcc 720
caccattcaa gagaaagtga atgaagggaa ataccgaagt ta tgaagagt tcaaagctga 780
tgcccaattg cttctccaca ataccgtgat tttctatgga gcagacagtg agcaagctga 840
cattgcgagg atgctatata aagacacatg tcatgagctg gatgaactgc agctttgcaa 900
gaattgcttt tacttgtcaa atgctcgtcc tgacaactgg ttctgttatc cttgtatacc 960
taatcatgag ctggtttggg ctaaaatgaa aggttttggg ttttggccag ccaaagtcat 1020
gcagaaagaa gacaatcaag tcgacgttcg cttctttggc caccaccacc agagggcctg 1080
gattccttct gaaaacattc aagatatcac agtcaacatt catcggctgc acgtgaagcg 1140
cagtatgggt tggaaaaagg cctgtgatga gctggagctg catcagcgtt tcctacgaga 1200
agggagattt tggaaatcta agaatgagga ccgaggtgag gaagaggcag aatccagtat 1260
ctcctccacc agtaatgagc agctaaaggt cactcaagaa ccaagagcaa agaaaggacg 1320
acgtaatcaa agtgtggagc ccaaaaagga agaaccagag cctgaaacag aagcagtaag 1380
ttctagccag gaaataccca cgatgcctca gccc atcgaa aaagtctccg tgtcaactca 1440
gacaaagaag ttaagtgcct cttcaccaag aatgctgcat cggagcaccc agaccacaaa 1500
cgacggcgtg tgtcagagca tgtgccatga caaatacacc aagatcttca atgacttcaa 1560
agaccggatg aagtcggacc acaagcggga gacagagcgt gttgtccgag aagctctgga 1620
gaagctgcgt tctgaaatgg aagaagaaaa gagacaagct gtaaataaag ctgtagccaa 1680
catgcagggt gagatggaca gaaaatgtaa gcaagtaaag gaaaagtgta aggaggaatt 1740
tgtagaagaa atcaagaagc tggcaacaca gcacaagcaa ctgatttctc agaccaagaa 1800
gaagcagtgg tgctacaact gtgaggagga ggccatgtac cactgctg ct ggaacacatc 1860
ctactgctcc atcaagtgcc agcaggagca ctggcacgcg gagcacaagc gcacctgccg 1920
ccggaaaaga tgaagctggc ccttcccgga gtcaccccga tgattactct tttcagacac 1980
agcggttttt gtttccaaga agccaaaatt gtttagaatt tgcttcccat tttgcaccag 2040
cctttaaaca cttttcgtga ag aaattttg cacagtagtt taaatctttt gttaatgctc 2100
ctccgaagtt tttcaggggg taaaagtaac atcagtggag ggtattattt taaataaatt 2160
ttaattgaga atttgttgca ttttcagcaa attttaaaac atttttaggt tttacagaga 2220
ttttaacctt taaacaacag atctttaaaa aacaggtgaa tacaagtgag tttaacaaag 2 280
aaacatttag aatagatctg aatgtaagaa ctacagaact gtttcagaaa taaaacatac 2340
taccttgatg tgacattttt ttcttaacct tgttgagctg gttttgttca gcttaattta 2400
ctgttcaaag gcattatctg ttggtcacac cagtgggtat atgattgaat ttagggaaca 2460
gggttgacac agcagggcta gtcctgcata tttttt ctta aatatttccc aattgtgttt 2520
ttcattattt cttttcaata tataactttt ataacaaatt attagctttg atcttgtagt 2580
ttaaaattgc agggaactgg ggtaatcttt tactgagctg gatcttagag aaaatgaata 2640
tttaaatttt aaagtttgcc acatttcatc tttgtcctaa catgagtgct tgtaacaaaa 2700

taaaacaaca aaaacaaagc ct 2722

<210> 345
<211> 363
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(363)
<223> 3' terminal sequence. matrix
metalloproteinase 11 (stromelysin 3) (MMP11) gene.

<400> 345
gcatgcagca tcctgagtgg tagcgtcgat ctcagagggc acccctctcc agtcagtggc 60
cctgcgggna cggngactgt ctacacgccg ggtgctgggg tggaaacgcc agtagtccct 120
gcctcggaag aagtagatct tgttcttctc gggaccccag accaaggc ag catggaccgg 180
gaacctcacc agggcccagc tcggtgaggg gtgcggggcc cagggactgg cttttcaccg 240
tcgtacaccc agtacttgag caccttggga agaaccaaat gtgggcccgg cttacccagc 300
attggccttt tcgccacagg gctggggcag tccctgccag tngcgagaag ccaattttgg 360
gca 363

<210> 346
<211> 2260
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(2260)
<223> matrix metalloproteinase 11 (stromelysin 3)
(MMP11) gene.

<400> 346
aagcccagca gccccggggc ggatggctcc ggccgcctgg ctccgcagcg cggccgcgcg 60
cgccctcctg cccccgatgc tgctgctgct gctccagccg ccgccgctgc tggcccgggc 120
tctgccgccg gacgtccacc acctccatgc cgagaggagg gggccacagc cctggcatgc 180
agccctgccc agtag cccgg cacctgcccc tgccacgcag gaagcccccc ggcctgccag 240
cagcctcagg cctccccgct gtggcgtgcc cgacccatct gatgggctga gtgcccgcaa 300
ccgacagaag aggttcgtgc tttctggcgg gcgctgggag aagacggacc tcacctacag 360
gatccttcgg ttcccatggc agttggtgca ggagcaggtg cggcagacga tggcaga ggc 420
cctaaaggta tggagcgatg tgacgccact caccttttact gaggtgcacg agggccgtgc 480
tgacatcatg atcgacttcg ccaggtactg gcatggggac gacctgccgt ttgatgggcc 540
tgggggcatc ctggcccatg ccttcttccc caagactcac cgagaagggg atgtccactt 600
cgactatgat gagacctgga ctatcgggga tgacc agggc acagacctgc tgcaggtggc 660
agcccatgaa tttggccacg tgctggggct gcagcacaca acagcagcca aggccctgat 720
gtccgccttc tacacctttc gctacccact gagtctcagc ccagatgact gcaggggcgt 780
tcaacaccta tatggccagc cctggcccac tgtcacctcc aggaccccag ccctgggccc 840
ccaggctggg ata gacacca atgagattgc accgctggag ccagacgccc cgccagatgc 900
ctgtgaggcc tcctttgacg cggtctccac catccgaggc gagctctttt tcttcaaagc 960
gggctttgtg tggcgcctcc gtgggggcca gctgcagccc ggctacccag cattggcctc 1020
tcgccactgg cagggactgc ccagccctgt ggacgctgcc ttcgaggatg ccca gggcca 1080
catttggttc ttccaaggtg ctcagtactg ggtgtacgac ggtgaaaagc cagtcctggg 1140

ccccgcaccc ctcaccgagc tgggcctggt gaggttcccg gtccatgctg ccttggtctg 1200
gggtcccgag aagaacaaga tctacttctt ccgaggcagg gactactggc gtttccaccc 1260
cagcacccgg cgtgtagaca gtcccgtgc c ccgcagggcc actgactgga gaggggtgcc 1320
ctctgagatc gacgctgcct tccaggatgc tgatggctat gcctacttcc tgcgcggccg 1380
cctctactgg aagtttgacc ctgtgaaggt gaaggctctg gaaggcttcc cccgtctcgt 1440
gggtcctgac ttctttggct gtgccgagcc tgccaacact ttcctctgac catggcttgg 1500
atgccctcag gggtgctgac ccctgccagg ccacgaatat caggctagag acccatggcc 1560
atctttgtgg ctgtgggcac caggcatggg actgagccca tgtctcctgc agggggatgg 1620
ggtggggtac aaccaccatg acaactgccg ggagggccac gcaggtcgtg gtcacctgcc 1680
agcgactgtc tcagactggg cagggaggct ttggcatgac tt aagaggaa gggcagtctt 1740
gggacccgct atgcaggtcc tggcaaacct ggctgccctg tctcatccct gtccctcagg 1800
gtagcaccat ggcaggactg ggggaactgg agtgtccttg ctgtatccct gttgtgaggt 1860
tccttccagg ggctggcact gaagcaaggg tgctggggcc ccatggcctt cagccctggc 1920
tgagcaactg ggctgta ggg cagggccact tcctgaggtc aggtcttggt aggtgcctgc 1980
atctgtctgc cttctggctg acaatcctgg aaatctgttc tccagaatcc aggccaaaaa 2040
gttcacagtc aaatggggag gggtattctt catgcaggag accccaggcc ctggaggctg 2100
caacatacct caatcctgtc ccaggccgga tcctcctgaa gccctttcg cagcac tgct 2160
atcctccaaa gccattgtaa atgtgtgtac agtgtgtata aaccttcttc ttctttttt 2220
tttttaaact gaggattgtc attaaacaca gttgttttct 2260

<210> 347
<211> 273
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequenc e:primer

<220>
<221> misc_feature
<222> (1)..(273)
<223> 3' terminal sequence. hypothetical protein
mgc13071 (MGC13071) gene.

<400> 347
atgtttattg aacgtaacag tatatttcat gtagtttccc ataatttttt catgtactaa 60
ctcatgtaat tctttgtttt ttagagatct gaagtgat tt tacctttact tccttcactt 120
taagccaatc atgaaatttc agtgatttct ggggtgaggg cgaaaggtgg tgttacgaat 180
catcggggct gtggccagnt tgcctcacgg aggtgcaggt aggctggggc ctcactaggg 240
canctggagg agcacggact gccctgccgg cag 273

<210> 348
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(330)
<223> 5' terminal sequence. hypothetical protein
mgc13071 (MGC13071) gene.

<400> 348
ggagtacaga acattgtggt a ggggaaggg actcactttc tcatcccatg tgtacaaaaa 60
ccaattatct ttgactgctg ttctcaacca cgtagtcgnc cagtcatcac tggtagcaaa 120
gatttacaga atgtcaacat cacactgtgc atcctcttcc ggcccatcac tagccagctt 180

cctcgcatct tcaccagcat tggagaggac tacgatgagt gtgtgctgcc gttcattacc 240
acggagatcc tcaagtcact ggtggctcgc tttgatgctg gagaactaat cacccagagg 300
gagcttggtt tccagccngg tgaagnacca 330

<210> 349
<211> 1168
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:prime r

<220>
<221> misc_feature
<222> (1)..(1168)
<223> hypothetical protein mgc13071 (MGC13071)
gene.

<400> 349
aaatgatgat agtagtacct acagtatagt gctgttagaa ttacatgagt tagatgtgga 60
ggtcagagtg gaagcaggtg tgagagggtc ccgcagaaga aaacatggct gccaaagtgt 120
ttgagtccat cggcaagttt ggcctggcct tagctgttgc aggaggcatg gtgacctctg 180
ccttatgtaa tgtggatgct gggcacagag ctgccatctt tgaccaattc cgtggagtac 240
agaacattgt ggtaggggaa gggactcact ttctcatccc atgtgtacaa aaaccaatta 300
tctttgactg ctgttctcaa ccacgtagtg cgccagtcat c actggtagc aaagatttac 360
agaatgtcaa catcacactg tgcatcctct tccggcccat cactagccag cttcctcgca 420
tcttcaccag cattggagag gactacgatg agtgtgtgct gccgttcatt accacggaga 480
tcctcaagtc actggtggct cgctttgatg ctggagaact aatcacccag agggagctgg 540
tctccagcca ggtgagcaac aaccttatgg agtgagcagc cacctttggg ctcattctgg 600
acgacgtgtc tttgacacat ctgaccttct tgaaggagtt aacagacagg tggcccccca 660
ggaagcagag agcgccagat ttgtggtgga aaaggcggcc atcatctctg ctgagggtga 720
ctccaaggca gctgagctga tcgccaactc actggccact gcaggggacg gccagagcga 7 80
gctgtgcaag ctggaagctg cagaagacat tgcataccag ctctcatgct ctcggaacat 840
cacctgcctg ccggcagggc agtccgtgct cctccagctg ccctagtgag gccccagcct 900
acctgcacct ccgtgaggca actgggccac agccccgatg attcgtaaca ccacctttcg 960
ccctcacccc agaaatcact gaaatttcat gattggctta aagtgaagga agtaaaggta 1020
aaatcacttc agatctctaa aaaacaaaga attacatgag ttagtacatg aaaaaattat 1080
gggaaactac atgaaatata ctgttacgtt caataaacat tagcttctgt atataaaaaa 1140
aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1168

<210> 350
<211> 315
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(315)
<223> 5' terminal sequence. interleukin enhancer
binding factor 2, 45kd (ILF2) gene.

<400> 350
ctggctttga aatcagttct ncgtgatgct acagtgaaga ttctcattac aacagtgcca 60
cccaatcttc gaaaactgga tccagaactc catttggata tcaaagtatt gcagagtgcc 120
ttagcagcca tccgacatgc ccgctggttc gaggaaaatg cttctcagtc cacagttaaa 180
gttcnccanc agantactga aggacttgag gattcgtttt ccnggctttg agc cctcaca 240

cccnggatnc ttgaactact aggncattat gctgtgatga acaaccccac caganagcct 300
ttggcnctaa acgtt 315

<210> 351
<211> 1552
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Se quence:primer

<220>
<221> misc_feature
<222> (1)..(1552)
<223> interleukin enhancer binding factor 2, 45kd
(ILF2) gene.

<400> 351
cggttggtgc ggcctccatt gttcgtgttt taaggcgcca tgaggggtga cagaggccgt 60
ggtcgtggtg ggcgctttgg ttccagagga ggcccaggag gag ggttcag gccctttgta 120
ccacatatcc catttgactt ctatttgtgt gaaatggcct ttccccgggt caagccagca 180
cctgatgaaa cttccttcag tgaggccttg ctgaagagga atcaggacct ggctcccaat 240
tctgctgaac aggcatctat cctttctctg gtgacaaaaa taaacaatgt gattgataat 300
ctgattgtgg ctccagggac a tttgaagtg caaattgaag aagttcgaca ggtgggatcc 360
tataaaaagg ggacaatgac tacaggacac aatgtggctg acctggtggt gatactcaag 420
attctgccaa cgttggaagc tgttgctgcc ctggggaaca aagtcgtgga aagcctaaga 480
gcacaggatc cttctgaagt tttaaccatg ctgaccaacg aaactggctt tgaaatcagt 540
tcttctgatg ctacagtgaa gattctcatt acaacagtgc cacccaatct tcgaaaactg 600
gatccagaac tccatttgga tatcaaagta ttgcagagtg ccttagcagc catccgacat 660
gcccgctggt tcgaggaaaa tgcttctcag tccacagtta aagttctcat cagactactg 720
aaggacttga ggattcgttt tcctggcttt gagcccctca c accctggat ccttgaccta 780
ctaggccatt atgctgtgat gaacaacccc accagacagc ctttggccct aaacgttgca 840
tacaggcgct gcttgcagat tctggctgca ggactgttcc tgccaggttc agtgggtatc 900
actgacccct gtgagagtgg caactttaga gtacacacag tcatgaccct agaacagcag 960
gacatggtct gctatacagc tcagactctc gtccgaatcc tctcacatgg tggctttagg 1020
aagatccttg gccaggaggg tgatgccagc tatcttgctt ctgaaatatc tacctgggat 1080
ggagtgatag taacaccttc agaaaaggct tatgagaagc caccagagaa gaaggaagga 1140
gaggaagaag aggagaatac agaaagaacc acctcaagga gaggaagaag aaagcatgg a 1200
aactcaggag tgacattccc ttcactcctt ttcctaccca agggaaagac tggagcctaa 1260
gctgcctgct actggcttta catggtgaca gacattccgt ggataggaag atagcaggag 1320
aaagtaactc catagagtgt cattccactg gttgatattg gcttagctgc cagtctccca 1380
tttgtgacct atgccatcca tctataatgg agg ataccaa catttcttcc taatattcta 1440
taatctccaa ctcctgaaaa cccctctctc aactaatact ttgctgttga aatgttgtga 1500
aatgttaagt gtctggaaat ttttttttct aagaaaaact attaaagtac tt 1552

<210> 352
<211> 396
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(396)
<223> 3' terminal sequence. hypothetical protein
flj11307 (FLJ11307) gene.

<400> 352
ctccattaca gggtttttgc cacttgctgt gaggataggg ccctgagttc ttacctctaa 60
ggtactggag gtttcagttg tagaatttcc agtattattg cttgagtttg aagacactgt 120
ttcatttta ctttcattat ctgatttttc atcggaactc atacattcaa tatctgcatc 180
aaagcctgtt ggatatccca ttgcctgcaa taccttcacc gctacgtgaa agttttgctg 240
ttttcttgga tggtcctgag gcttcatatg ttgtgccatc cacatctaca gacattg tga 300
agactggggg catgaacggg ggccagactg aagataagaa gctatactga agcacaggcc 360
tgatctgaat taagcntcat tagtggcatt ccataa 396

<210> 353
<211> 1858
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequen ce:primer

<220>
<221> misc_feature
<222> (1)..(1858)
<223> hypothetical protein flj11307 (FLJ11307)
gene.

<400> 353
tcgatgaaag atcctccgga cttattggac aggcagaaat gcccgaacgc cttggcgtct 60
cttcgacatg ccaaatggtt tcaggcaagg gcaaatggat taaaatcatg tgtaat tgtc 120
ctccgcattc tgcgtgattt gtgcaacaga gtccccacat gggcaccatt gaaaggatgg 180
ccactagaac ttatatgtga aaagtctata ggtacttgta atagaccttt gggcgctggg 240
gaggccttga gacgagtaat ggagtgtttg gcatctggaa tactacttcc tgggggtcct 300
ggtcttcatg atccttgtga gcgagaccca acag atgctc tgagctatat gaccatccag 360
caaaaagaag atattaccca cagtgcacag catgcactca gactatcagc ctttggccag 420
atttacaaag tgctggagat ggacccccct ccatctagta agccttttca gaagtattcc 480
tggtcagtta ctgataaaga aggtgctggg tcttcagctc taaagaggcc atttgaagat 540
ggattagggg atgataaaga ccccaacaag aagatgaaac gaaacttaag gaaaattctg 600
gatagtaaag caatagacct tatgaatgca ctaatgaggc taaatcagat caggcctggg 660
cttcagtata agctcctatc tcagtctggc cccgttcatg ccccagtctt cacaatgtct 720
gtagatgtgg atggcacaac atatgaagcc tcaggaccat ccaagaaaac agca aaactt 780
cacgtagcgg tgaaggtatt gcaggcaatg ggatatccaa caggctttga tgcagatatt 840
gaatgtatga gttccgatga aaaatcagat aatgaaagta aaaatgaaac agtgtcttca 900
aactcaagca ataatactgg aaattctaca actgaaacct ccagtacctt agaggtaaga 960
actcagggcc ctatcctcac agcaagtggc aa aaaccctg taatggagct caatgaaaaa 1020
agaagaggtc tcaagtatga actcatctca gagactggtg gaagccatga caagcgcttt 1080
gtaatggagg tagaagtaga tggacagaaa ttcagaggcg caggtccaaa taagaaagtg 1140
gcaaaggcga gtgcagcttt agctgccttg gagaaactgt tttctggacc caatgcggca 1200
aataataaga aaaagaagat tatccctcag gcaaagggcg ttgtgaatac agctgtgtct 1260
gcagcagtcc aagctgttcg gggcagagga agaggaactc taacaagggg agcttttgtt 1320
ggggcgacag ctgctcctgg ctacatagct ccaggctatg gaacaccata tggttacagc 1380
acagctgccc ctgcctatgg tttacccaag agaatggttc tgttac ccgt tatgaaattt 1440
ccaacatatc ctgttcccca ctactcattc ttttagcaaa tgacagaagc taattcctat 1500
tgaacaacaa tacagtacaa cacagaatgt tagagaaaaa gccttttat cctgctttct 1560
ttgaacacat acttgatcaa aattatttgt aaagaacatc tttcctactt tttgatttta 1620
acaaatgcaa atttagttct ctaaaacttg aaaaaaaaaa aagaaaccag ttctgtgaaa 1680
acggtacctc atttctggaa aataacttat accagccctt ctgttctagg gaaataaaag 1740
tctagcagtt caaagtttaa gttttaagag acgtatcaga ttatgtaaaa ttaaatttgt 1800
gaaggatgta tagagtctca aacactgatc acaaataaac tgctttgttg taacacag 1858

<210> 354
<211> 242
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(242)
<223> 5' terminal sequence. v-myb avian
myeloblastosis viral oncogene homolog (MYB) gen e.

<400> 354
agaaccccag ctatcaaaag gtcaatctta gaaagctctc caagaactcc tacaccattc 60
aaacatgcac ttgcagctca agaaattaaa tacggtcccc tgaagatgct acctcagaca 120
ccctctcatc tagtagaaga tctgcaggat gtgatcaaac aggaatctga tgaatctgga 180
attgttgctg agtttcaacg aaaatggacc accettactg aacgaaaatc ntacaacgag 240
gt 242

<210> 355
<211> 3225
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(3225)
<223> v-myb avian myeloblastosis viral oncogene
homolog (MYB) gene.

<400> 355
ggcggcagcg ccctgccgac gccggggagg gacgcaggca ggcggcgggc agcgggaggc 60
ggcaccccgg tgctccccgc ggctctcggc ggagccccgc cgcccgccgc gccatggccc 120
gaagaccccg gcaca gcata tatagcagtg acgaggatga tgaggacttt gagatgtgtg 180
accatgacta tgatgggctg cttcccaagt ctggaaagcg tcacttgggg aaaacaaggt 240
ggacccggga agaggatgaa aaactgaaga agctggtgga acagaatgga acagatgact 300
ggaaagttat tgccaattat ctccccgaatc gaacagatgt gcagtgccag caccgat ggc 360
agaaagtact aaaccctgag ctcatcaagg gtccttggac caaagaagaa gatcagagag 420
tgatagagct tgtacagaaa tacggtccga aacgttggtc tgttattgcc aagcacttaa 480
aggggagaat tggaaaacaa tgtagggaga ggtggcataa ccacttgaat ccagaagtta 540
agaaaacctc ctggacagaa gaggaagaca gaatt attta ccaggcacac aagagactgg 600
ggaacagatg ggcagaaatc gcaaagctac tgcctggacg aactgataat gctatcaaga 660
accactggaa ttctacaatg cgtcggaagg tcgaacagga aggttatctg caggagtctt 720
caaaagccag ccagccagca gtggccacaa gcttccagaa gaacagtcat ttgatgggtt 780
ttgctcaggc tcc gcctaca gctcaactcc ctgccactgg ccagcccact gttaacaacg 840
actattccta ttaccacatt tctgaagcac aaaatgtctc cagtcatgtt ccataccctg 900
tagcgttaca tgtaaatata gtcaatgtcc ctcagccagc tgccgcagcc attcagagac 960
actataatga tgaagaccct gagaaggaaa agcgaataaa ggaattagaa ttgct cctaa 1020
tgtcaaccga gaatgagcta aaaggacagc aggtgctacc aacacagaac cacacatgca 1080
gctaccccgg gtggcacagc accaccattg ccgaccacac cagacctcat ggagacagtg 1140
cacctgtttc ctgtttggga gaacaccact ccactccatc tctgccagcg gatcctggct 1200
ccctacctga agaaagcgcc tcgccagcaa ggtgcatgat cgtccaccag ggcaccattc 1260
tggataatgt taagaacctc ttagaatttg cagaaacact ccaatttata gattctttct 1320
taaacacttc cagtaaccat gaaaactcag acttggaaat gccttcttta acttccaccc 1380
ccctcattgg tcacaaattg actgttacaa caccatttca tagagaccag actgtgaaaa 1440
ctcaaaagga aaatactgtt tttagaaccc cagctatcaa aaggtcaatc ttagaaagct 1500
ctccaagaac tcctacacca ttcaaacatg cacttgcagc tcaagaaatt aaatacggtc 1560
ccctgaagat gctacctcag acaccctctc atctagtaga agatctgcag gatgtgatca 1620

aacaggaatc tgatgaatct ggatttgttg ctgagtttca aga aaatgga ccacccttac 1680
tgaagaaaat caaacaagag gtggaatctc caactgataa atcaggaaac ttcttctgct 1740
cacaccactg ggaaggggac agtctgaata cccaactgtt cacgcagacc tcgcctgtgc 1800
gagatgcacc gaatattctt acaagctccg ttttaatggc accagcatca gaagatgaag 1860
acaatgttct caaagcat tt acagtaccta aaaacaggtc cctggcgagc cccttgcagc 1920
cttgtagcag tacctgggaa cctgcatcct gtggaaagat ggaggagcag atgacatctt 1980
ccagtcaagc tcgtaaatac gtgaatgcat tctcagcccg gacgctggtc atgtgagaca 2040
tttccagaaa agcattatgg ttttcagaac agttcaagtt gacttgggat atatcat tcc 2100
tcaacatgaa acttttcatg aatgggagaa gaacctattt ttgttgtggt acaacagttg 2160
agagcacgac caagtgcatt tagttgaatg aagtcttctt ggatttcacc caactaaaag 2220
gatttttaaa aataaataac agtcttacct aaattattag gtaatgaatt gtagccagtt 2280
gttaatatct taatgcagat ttttttaaaa a aaaacataa aatgatttat ctggtatttt 2340
aaaggatcca acagatcagt atttttttcct gtgatgggtt ttttgaaatt tgacacatta 2400
aaaggtactc cagtatttca cttttctcga tcactaaaca tatgcatata tttttaaaaa 2460
tcagtaaaag cattactcta agtgtagact taataccatg tgacatttaa tccagattgt 2520
aaatgctcat ttatggttaa tgacattgaa ggtacattta ttgtaccaaa ccattttatg 2580
agtttttctgt tagcttgctt taaaaattat tactgtaaga aatagtttta taaaaaatta 2640
tatttttatt cagtaattta attttgtaaa tgccaaatga aaaacgtttt ttgctgctat 2700
ggtcttagcc tgtagacatg ctgctagtat cagaggggca gtaga gcttg gacagaaaga 2760
aaagaaactt ggtgttaggt aattgactat gcactagtat ttcagacttt ttaattttat 2820
atatatatac attttttttc cttctgcaat acatttgaaa acttgtttgg gagactctgc 2880
attttttatt gtggtttttt tgttattgtt ggtttataca agcatgcgtt gcacttcttt 2940
tttgggagat gtgtgttgtt catgttctat gttttgtttt gtgtgtagcc tgactgtttt 3000
ataatttggg agttctcgat ttgatccgca tcccctgtgg tttctaagtg tatggtctca 3060
gaactgttgc atggatcctg tgtttgcaac tggggagaca gaaactgtgg ttgatagcca 3120
gtcactgcct taagaacatt tgatgcaaga tggccagcac tgaacttttg agatatgac g 3180
gtgtacttac tgccttgtag caaaataaag atgtgccctt atttt 3225

<210> 356
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(369)
<223> 3' terminal sequ ence. zinc finger protein 9
(a cellular retroviral nucleic acid binding
protein) (ZNF9) gene.

<400> 356
gtagttaaat gcagaaagtc ggtttttttc caccccttc ctcctttac acggcaagta 60
aagctcactg gcctgggagt tgcctctatc tgccaacctt tggccagtga agaggattca 1 20
gagaaaataa tacaaccatc aatcagaaaa aggaggggcg acaaaggaaa ataattaggc 180
tgtagctcaa ttgtgcattc ccgtgcaagg tgccctgact cgccacagcg gtaacagttg 240
acttcacttg tcttgctgca gttgatggct acatgaccag tttcaccaca cctatagcac 300
ttcactttgg tgcagtcttt tttgaatgtg tcccgaattc tcccacaaga atanccttc 360
tgctcanct 369

<210> 357
<211> 1500
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1500)
<223> zinc finger protein 9 (a cellular retroviral
nucleic acid binding protein) (ZNF9) gene.

<400> 357
gaattccaaa cagcctctac cttgcgagcc gtcttcccca ggcctgcgtc cgagtctccg 60
ccgctgcggg cccgctccga cgcggaagat ctgactgcag ccatgagcag caatgagtgc 120
ttcaagtgtg gacgatctgg ccactgggcc cgggaatgtc ctactggtgg aggccgtggt 180
cgtggaatga gaagccgtgg cagaggtggt tttacctcgg atagaggttt ccagtttgtt 240
tcctcgtctc ttccagatat ttgttatcgc tgtggtgagt ctggtcatct tgccaaggat 300
tgtgatcttc aggaggatgc ctgctataac tgcggtagag gtg gccacat tgccaaggac 360
tgcaaggagc ccaagagaga gcgagagcaa tgctgctaca actgtggcaa accaggccat 420
ctggctcgtg actgcgacca tgcagatgag cagaaatgct attcttgtgg agaattcgga 480
cacattcaaa aagactgcac caaagtgaag tgctataggt gtggtgaaac tggtcatgta 540
gccatcaact gcagcaagac a agtgaagtc aactgttacc gctgtggcga gtcagggcac 600
cttgcacggg aatgcacaat tgaggctaca gcctaattat tttcctttgt cgcccctcct 660
ttttctgatt gatggttgta ttatttttctc tgaatcctct tcactggcca aaggttggca 720
gatagaggca actcccaggc cagtgagctt tacttgccgt gtaaaaggag gaaaggggtg 780
gaaaaaaacc gactttctgc atttaactac aaaaaaagtt tatgtttagt ttggtagagg 840
tgttatgtat aatgctttgt taaagaaccc cctttccgtg ccactggtga atagggattg 900
atgaatggga agagttgagt cagaccagta agcccgtcct gggttccttg aacatgttcc 960
catgtaggag gtaaaaccaa ttctggaagt gtctatgaac t tccataaat aactttaatt 1020
ttagtataat gatggtcttg gattgtctga cctcagtagc tattaaataa catcaagtaa 1080
catctgtatc aggccctaca tagaacatac agttgagtgg gagtaaacaa aaagataaac 1140
atgcgtgtta atggctgttc gagagaaatc ggaataaaag cctaaacagg aacaacttca 1200
tcacagtgtt gatgtt ggac acatagatgg tgatggcaaa ggtttagaac acattatttt 1260
caaagactaa atctaaaacc cagagtaaac atcaatgctc agagttagca taatttggag 1320
ctattcagga attgcagaga aatgcatttt cacagaaatc aagatgttat ttttgtatac 1380
tatatcactt agacaactgt gtttcatttg ctgtaatcag tttttaaaag tcaga tggaa 1440
agagcaactg aagtcctaga aaatagaaat gtaattttaa actattccaa taaagctgga 1500

<210> 358
<211> 425
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(425)
<223> 3' terminal sequence. camp responsive
element modulator (CREM) gene.

<400> 358
ttttttactt ctgcaagatc ttttatatta cacagtagag ttaaaaactg tagtaaatgt 60
tcagatattt aaatgagcac caaacactac aaagtgcaac caacatggtt ctattaaaaa 120
ctcnctttga ctatggcatt caaggacagc aatacaat ct ttttttttt taacaaagca 180
actaatataa aaatctgcaa atgccatata ttcatatcta ggctattctt cncatatagg 240
catgtcatta gatagacttt ctttctattc tttccngagg natttttttg nggtttacnt 300
ttattgnact gctggatgca ttatttttga tcatcctttc ctaaaatgnt ttaaagacct 360
gcaaataatt ttattg cata ggacacnatt ggtgncacat agaatgggag cngcaagtat 420
gtggc 425

<210> 359

<211> 232
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(232)
<223> 5' terminal sequence. camp responsive
element modulator (CREM) gene.

<400> 359
ggatttagag ttaactagct caccactgcc tctgcctcca agctgccttt tagactgaat 60
agcttttctt gttagcccta ctttaacatt tcttttgaag tgggtgtctg cttgaagagg 120
gaaacacgtc atgaaactgt aatgcatgaa cagaactcag gagttgtctg gccagcttag 180
tgctgccact ggtgacatgc caacttacca gatccgagct cctantgnng ct 232

<210> 360
<211> 1431
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:prime r

<220>
<221> misc_feature
<222> (1)..(1431)
<223> camp responsive element modulator (CREM)
gene.

<400> 360
atgaccatgg aaacagttga atcccagcat gatggaagta taacagcttc tttgacagag 60
agcaagtctg ctcatgtgca gactcagact gggcaaattt caatccctgc tttagctcag 120
tgcagtgagc tgagatcagg caccagaaga ggctccccag ctgtaactct agtgcagtta 180
ccttcgggcc aaactataca tgtccaggga gtaattcaga caccacagcc atgggttatt 240
cagtcatcag aaatacacac cgttcaggta gcagcaattg cagagacaga tgaatctgca 300
gaatcagaag gtgtaattga ttctcataaa cgtagagaaa t cctttcacg aagaccctct 360
tataggaaaa tactgaatga actgtcctct gatgtgcctg gtgttcccaa gattgaagaa 420
gagagatcag aggaagaagg aacaccacct agtattgcta ccatggcagt accaactagc 480
atatatcaga ctagcacggg gcaatacatt gctatagccc aaggtggaac aatccagatt 540
tctaacccag gatctgatgg tgttcaggga ctgcaggcat taacaatgac aaattcagga 600
gctcctccac caggtgctac aattgtacag tacgcagcac aatcagctga tggcacacag 660
cagttctttg tcccaggcag ccaggttgtt gttcaagctg ccactggtga catgccaact 720
taccagatcc gagctcctac tgctgctttg ccacagggag tggtgatggc tgcatcgccc 7 80
ggaagtttgc acagtcccca gcagctggca gaagaagcaa cacgcaaacg agagctgagg 840
ctaatgaaaa acagagaagc tgcccgggag tgtcgcagga agaagaaaga atatgtcaaa 900
tgtcttgaaa atcgtgtggc tgtgcttgaa aaccaaaaca agactctcat tgaggaactc 960
aaggccctca aagatcttta ttgccataaa gtagagtaac tgtctttgac ttggaccttg 1020
tttactctaa tcaaggcagg agatgcagca gtcctactta ttgccatgtg gacttgtggg 1080
aaggacacgt gtgacccttа agaatccagt ttggattagt gtttgaaatt gaattgggaa 1140
tgttgttcca ggatgtggaa tgcagcgtga tcacacttac cgagcttact ttgatctgtt 1200
tgtcaatagc atgcaaaaaa tgctttgttt gccctttgct tctgcttttt ttcagggaag 1260
ctgccaaaga atgtcgacgt cgaaagaaag aatatgtaaa atgcctggag agccgagttg 1320
cagtgctgga agtccagaac aagaagctta tagaggaact tgaaaccttg aaagacattt 1380
gttctcccaa aactgattac tagaaatatt taactatgaa ctgattacag a 1431

<210> 361
<211> 457
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(457)
<223> 3' terminal sequence. cathepsin b (CTSB)
gene.

<400> 361
caagttggag aaacctttta ttggcacagg cattccttgt taacttgaca gggtgaagct 60
gtaatttttc aaaaacagta aaagctggtt tctcctaaac tattttcctt gtggtagtag 120
agatcagtgg gtcagaaaca actcctgacc acttggtttc cttttgagcc gcgtcattag 180
gaggcaatct gtaaaactag cacaggtctc ccgctgttcc actggctcac ccacatg att 240
agcagagtgc acgaaaaaat aaaacttcta ttaaagaatc atgctgagca caacatcaga 300
gaggttgtga cattgcaaac tcgatagatg caggggcct gggagactgg cgttctccaa 360
agggctccca acaccatctc tcctctgatt tctgtgacaa atgtggaagc tacttgcttg 420
gaggtactgg gggaactgat gggggaactt tcatc cg 457

<210> 362
<211> 401
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(401)
<223> 3' terminal sequence. melan -a (MLANA) gene.

<400> 362
atcatgcatt gcaacattta ttgatggagt tttcccaatt taatatttct catcatttcc 60
tcacatgatt agtactgcta gcggacctac taaaatttta acactgactt attattagag 120
atggcttgca tttttcctac accattccaa aggagaacat tagatgtctg tattaaattc 180
aagcaaaagt gtgagagaaa taatttcagc atgtctcagg tgtctcgct g gcncttaagg 240
tgaataaggt ggtggtgact gttctgcaga gagtttctca taagcaggtg gagcattggg 300
aaccacaggt tcacagtttt tctcttgaag agacactttg ctgtcccgat gatcaaaccc 360
ttcttgtggg catcttcctg ttaaggcaca ttgaggccaa c 401

<210> 363
<211> 370
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(370)
<223> 5' terminal sequence. melan -a (MLANA) gene.

<400> 363
attaaggaag gtgtcctgtg ccctgaccct acaagatgcc aagagaagat gctcacttca 6 0
tctatggtta ccccaagaag gggcacggcc actcttacac cacggctgaa gaggccgctg 120
ggatcggcat cctgacagtg atcctgggag tcttactgct catcggctgt tggtattgta 180
gaagacgaaa tggatacaga gccttgatgg ataaaagtct tcatgttggc actcaatgtg 240
cttaacaaga agatgcccac aagaagggtt tgatcatcgg gacagcaaag tgtctcttca 300
agagaaaaac tgtgaacctg tggttcccaa tgctccacct gcttatggag aaactctctg 360
cagaacagtc 370

<210> 364
<211> 1524
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1524)
<223> melan-a (MLANA) gene.

<400> 364
agcagacaga ggactctcat taaggaaggt gtcctgtgcc ctgaccctac aagatgccaa 60
gagaagatgc tcacttcatc tatggttacc ccaagaaggg gcacggccac tcttacacca 120
cggctgaaga ggccgctggg atcggcatcc tgacagtgat cctgggagtc ttactgctca 180
tcggctgttg gtattgtaga agacgaaatg gatacagagc cttgatggat aaaagtcttc 240
atgttggcac tcaatgtgcc ttaacaagaa gatgcccaca agaagggttt gatcatcggg 300
acagcaaagt gtctcttcaa gagaaaaact gtgaacctgt ggttccc aat gctccacctg 360
cttatgagaa actctctgca gaacagtcac caccacctta ttcaccttaa gagccagcga 420
gacacctgag acatgctgaa attatttctc tcacactttt gcttgaattt aatacagaca 480
tctaatgttc tcctttggaa tggtgtagga aaaatgcaag ccatctctaa taataagtca 540
gtgttaaaat tttagtaggt ccgct agcag tactaatcat gtgaggaaat gatgagaaat 600
attaaattgg gaaaactcca tcaataaatg ttgcaatgca tgatactatc tgtgccagag 660
gtaatgttag taaatccatg gtgttatttt ctgagagaca gaattcaagt gggtattctg 720
gggccatcca atttctcttt acttgaaatt tggctaataa caaactagtc aggttttcga 780
accttgaccg acatgaactg tacacagaat tgttccagta ctatggagtg ctcacaaagg 840
atacttttac aggttaagac aaagggttga ctggcctatt tatctgatca agaacatgtc 900
agcaatgtct ctttgtgctc taaaattcta ttatactaca ataatatatt gtaaagatcc 960
tatagctctt ttttttgag atggagtttc gcttttgttg cccag gctgg agtgcaatgg 1020
cgcgatcttg gctcaccata acctccgcct cccaggttca agcaattctc ctgccttagc 1080
ctcctgagta gctgggatta caggcgtgcg ccactatgcc tgactaattt tgtagtttta 1140
gtagagacgg ggtttctcca tgttggtcag gctggtctca aactcctgac ctcaggtgat 1200
ctgcccgcct cagcctccca aagtgctgga attacaggcg tgagccacca cgcctggctg 1260
gatcctatat cttaggtaag acatataacg cagtctaatt acatttcact tcaaggctca 1320
atgctattct aactaatgac aagtattttc tactaaacca gaaattggta gaaggattta 1380
aataagtaaa agctactatg tactgcctta gtgctgatgc ctgtgtactg ccttaaatg t 1440
acctatggca atttagctct cttgggttcc caaatccctc tcacaagaat gtgcagaaga 1500
aatcataaag gatcagagat tctg 1524

<210> 365
<211> 556
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:p rimer

<220>

<221> misc_feature
<222> (1)..(556)
<223> 3' terminal sequence. apr-1 protein (APR-1)
gene.

<400> 365
actattcgtt aggcttttat ttttctctat gttctgcagt aactaaggaa aatcatggta 60
aatgtcaatc ttcacacaac agcagacaca aagggtttca gaaacgtcag atatgaag aa 120
atcctccatc cttcttcaac attttactgg gtatttcaac ttcaaaagaa cagcttattt 180
ctataagtgc tgtacaagat catagattat gatggaacga cttcatttta gaacgttagc 240
aaaactgtta tactaaatgt caatgacagg aaacaaagaa aaaaatttgt tcaattatat 300
ttttaaacat attgttattc tcaacaaacg gaattt taaa acgaatacaa ttttccatta 360
tcaaaaagca aacactctat ttcgcagttg aacaatgatc actgatcaca aatatcnaat 420
acagtgtccc ccgcccccaa tcgacatcat tttccactta gggaccctgg catccactcc 480
ctgggggtac ccgtgactcc ncctttacac cccccagggg ctggcctcag atctacctaa 540
ggggngggat aaccc cc 556

<210> 366
<211> 464
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(464)
<223> 5' terminal sequence. apr-1 protein (APR-1)
gene.

<400> 366
aacagcgcca aggaagctct ggtctggaaa gtgctgggga agttaggaat gcagcctgga 60
cgtcagcaca gcatctttgg agatccgaag aagatcgtca cagaagagtt tgtgcgcaga 120
gggtacctga tttataaacc ggtgccccgt agcagtccgg tggagtatga gttcttctgg 180
gggccccgag cacacg tgga atcgagcaaa ctgaaagtca tgcatttttgt ggcaagggtt 240
cgtaaccgat gctctaaaga ctggccttgt aattatgact gggattcgga cgatgatgca 300
gaggttgagg ctatcctcaa ttcaggtgct aggggttatt ccgccccctta agtagatctg 360
gaggcagacc cttgggggtt gtaaaagaga gtnacaggta cccccaaagg agtagatg nc 420
aaggggccct aagttgcaaa atgatgtcga ttttggggcc gggg 464

<210> 367
<211> 1476
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1476)
<223> apr-1 protein (APR-1) gene.

<400> 367
ctggaagaat tcgcgtggca ggagaggcgg ggccaatttt gctgagcttt ctcgcgggct 60
tgcagctgcg gcaagtgctg gcggcggctg ctcgcgcaag tcagctggcg tgggaactac 120
cctttgtagc tgagaacggc ttgtttattg ctacaaagac tctattgaca ttggtagctt 180
cagcggcagc agcttct tac ggtataaagc tgttgcttcc tgaagaggct acaagcatcc 240

ttccctagga ctgctgtaag ctttgagcct ctagcaggag acatgcctcg gggacgaaag 300
agtcggcgcc gccgtaatgc gagagccgca gaagagaacc gcaacaatcg caaaatccag 360
gcctcagagg cctccgagac ccctatggcc gcctctgtgg tagcgagcac ccccgaaga c 420
gacctgagcg gccccgagga agacccgagc actccagagg aggcctctac cacccctgaa 480
gaagcctcga gcactgccca agcacaaaag ccttcagtgc cccggagcaa ttttcagggc 540
accaagaaaa gtctcctgat gtctatatta gcgctcatct tcatcatggg caacagcgcc 600
aaggaagctc tggtctggaa agtgctgggg aagttag gaa tgcagcctgg acgtcagcac 660
agcatctttg gagatccgaa gaagatcgtc acagaagagt ttgtgcgcag agggtacctg 720
atttataaac cggtgccccg tagcagtccg gtggagtatg agttcttctg ggggccccga 780
gcacacgtgg aatcgagcaa actgaaagtc atgcattttg tggcaagggt tcgtaaccga 840
tgctctaaag actgg ccttg taattatgac tgggattcgg acgatgatgc agaggttgag 900
gctatcctca attcaggtgc taggggttat tccgcccctt aagtagatct gaggcagacc 960
cttgggggtg taaaagagag tcacaggtac cccaaggagt agatgccagg gtcctaagtt 1020
gaaaatgatg tcgattgggg gcgggggaca ctgtatttga tatttgtgat cagtga tcat 1080
tgttcaactg cgaaatagag tgtttgcttt tgataatgga aaattgtatt cgttttaaaa 1140
ttccgtttgt tgagaataac aatatgttta aaaatataat tgaacaaatt ttttttctttg 1200
tttcctgtca ttgacattta gtataacagt tttgctaacg ttctaaaatg aagtcgttcc 1260
atcataatct atgatcttgt acagcactta tagaaataag ctgttctttt gaagttgaaa 1320
tacccagtaa aatgttgaag aaggatggag gatttcttca tatctgacgt ttctgaaacc 1380
ctttgtgtct gctgttgtgt gaagattgac atttaccatg attttcctta gttacttgac 1440
gtcttgtatc tctttttatt ttcggattgc ttatca 1476

<210> 368
<211> 436
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(436)
<223> 3' terminal sequence. ets variant gene 5
(ets-related molecule) (ETV5) gene.

<400> 368
cgtttttttg ctttaaatac caaaactaca aaaatcagtt tataaactgt ttttccaaaa 60
caaccaccaa aacaaaacaa tcccccaaat cagggcaaaa caaaatactg tcaaaagtgt 120
taatcgccct tctcctaaaa taaaagtcat ccacactcag ccacgtgatt gggaagagaa 180
agggggcttg ctctacttgg cgaccacatg gccgggtggt tcccaa gagt agccatggtt 240
tatgattttg agaaccacgg agngcgaaac agctgttctg actgcccccc ttttctaga 300
caaggggtaa tatttcagat tcagctagaa gagctttcca atgtttaaga tgtattttta 360
acccttaatg gtttgagcct ccccaactta gcctacttac ttttcnaagg gtttgtgatt 420
tttcaacaaa ttgtgc 436

<210> 369
<211> 414
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(414)
<223> 5' terminal sequence. ets variant gene 5
(ets-related molecule) (ETV5) gene.

<400> 369
ggttgctcgg cgctggggca tccagaagaa ccggccagcc atgaactatg acaagctgag 60
ccgctctctc cgctattact atgaaaaggg catcatgcag aaggtggctg gagagcgata 120
cgtctacaaa tttgtctgtg acccagatgc cctcttctcc atggctttcc cggataacca 180
gcgtccgttc ctgaaggcag agtccgagtg ccacctcagc gaggaggaca ccctgccgct 240
gacccacttt gaagacagcc ccgcttacct cctggacatg gaccgctgca gcagcctccc 300
ctatgccgaa ggtttgctta ctaagtttct gagtggcgga gtgnccaaac cctaggagct 360
agcagttccc attcagggca aacaagnggc agtggngttt gtt ttgtgtt tttt 414

<210> 370
<211> 249
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(249)
<223> 5' terminal sequence. cd69 antigen (p60,
early t-cell activation antigen) (CD69) gene.

<400> 370
ataataagga aacgtgttca cttattgact attatagaat ggaactcatg gaaatctgtg 60
tcagtggatg ctgctctgtg gtccgaagtc ttccatagag actttgtgaa aaaaaatttt 120
atagtgtctt gggaattttc ttccaaacag aactatggaa aaaaaggaag aaattccagg 180
aaaatctgca ctgtgggctt ttattgccat gagctagaag catcacaggg tgaccaataa 240
cccngacgc 249

<210> 371
<211> 1702
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1702)
<223> cd69 antigen (p60, early t -cell activation
antigen) (CD69) gene.

<400> 371
agactcaaca agagctccag caaagacttt cactgtagct tgacttgacc tgagattaac 60
tagggaatct tgagaataaa gatgagctct gaaaattgtt tcgtagcaga gaacagct ct 120
ttgcatccgg agagtggaca agaaaatgat gccaccagtc cccatttctc aacacgtcat 180
gaagggtcct tccaagttcc tgtcctgtgt gctgtaatga atgtggtctt catcaccatt 240
ttaatcatag ctctcattgc cttatcagtg ggccaataca attgtccagg ccaatacaca 300
ttctcaatgc catcagacag ccatgtttct tcatgc tctg aggactgggt tggctaccag 360
aggaaatgct actttatttc tactgtgaag aggagctgga cttcagccca aaatgcttgt 420
tctgaacatg gtgctactct tgctgtcatt gattctgaaa aggacatgaa ctttctaaaa 480
cgatacgcag gtagagagga acactgggtt ggactgaaaa aggaacctgg tcacccatgg 540
aagtggtcaa atgg caaaga atttaacaac tggttcaacg ttacagggtc tgacaagtgt 600
gtttttctga aaaacacaga ggtcagcagc atggaatgtg agaagaattt atactggata 660
tgtaacaaac cttacaaata ataaggaaac atgttcactt attgactatt atagaatgga 720
actcaaggaa atctgtgtca gtggatgctg ctctgtggtc cgaagtcttc cataga gact 780

ttgtgaaaaa aaattttata gtgtcttggg aattttcttc caaacagaac tatggaaaaa 840
aaggaagaaa ttccaggaaa atctgcactg tgggctttta ttgccatgag ctagaagcat 900
cacaggttga ccaataacca tgcccaagaa tgagaagaat gactatgcaa cctttggatg 960
cactttatat tattttgaat ccagaaataa tgaa ataact aggcgtggac ttactattta 1020
ttgctgaatg actaccaaca gtgagagccc ttcatgcatt tgcactactg gaaggagtta 1080
gatgttggta ctagatactg aatgtaaaca aaggaattat ggctggtaac ataggttttt 1140
agtctaattg aatcccttaa actcagggag catttataaa tggacaaatg cttatgaaac 1200
taagatttgt aatatttctc tctttttaga gaaatttgcc aatttacttt gttatttttc 1260
cccaaaaaga atgggatgat cgtgtattta ttttttttact tcctcagctg tagacaggtc 1320
cttttcgatg gtacatattt ctttgccttt ataatctttt atacagtgtc ttacagagaa 1380
aagacataag caaagactat gaggaatatt tgcaagacat agaatagt gt tggaaaatgt 1440
gcaatatgtg atgtggcaaa tctctattag gaaatattct gtaatcttca gacctagaat 1500
aatactagtc ttataatagg tttgtgactt tcctaaatca attctattac gtgcaatact 1560
tcaatacttc atttaaaata tttttatgtg caataaaatg tatttgtttg tattttgtgt 1620
tcagtacaat tataagctgt tt ttatatat gtgaaataaa agtagaataa acacaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa aa 1702

<210> 372
<211> 585
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(585)
<223> 3' terminal sequence. oncogene tc21 (TC21)
gene.

<400> 372
gtaggcagta tgattccaaa agttaaaaat tatttcacaa cctgtagctt cagcttggca 60
aacagcttag attccaaaac tgattcatct ctattaaaat gtaagcactt aaaaaaagag 120
catgtctgtg tatatagaca tat attttaa aggaatcaga taatctttga agcagcctta 180
gtgtttcctt taaatttgtc tggaaatgac cattgtatta gcttcacaga aaggactagc 240
cagcttcttc gtctaaggct aacatggtga tcatttgtct aaggctagaa aggtaccaac 300
aagatgtaaa ctgaggagag aaagagaaga tgagggcttt tcctggccgt tggtagctaa 360
aactgaaggg attctagaaa atgacacaat ggcagccttt cntgtctttt tctttccgtg 420
ttggttcngg tgaaggagga cattcctggc cctggaaatt tccnggataa cccggacaag 480
ttcatgggaa agcttgatct acattcatcc taatccttgc cggatgccnc catgtatgtt 540
acctaagctg ccggcaacgg tngcctctnc cggggtaccg gcc ng 585

<210> 373
<211> 451
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(451)
<223> 5' terminal sequence. oncogene tc21 (TC21)
gene.

<400> 373
gattcttaca caaagcagtg tgtgatagat gacagagcag cccggctaga tattttggat 60

acagcaggac aagaagagtt tggagccatg agagaacagt atatgaggac tggcgaaggc 120
ttcctgttgg tcttttcagt cacagataga ggcagttttg aagaaatcta taagtttcaa 180
agacagattc tcagagtaaa ggatcgtgat gagttcccaa tgattt taat tggtaataaa 240
gcagatctgg atcatcaaag acaggtaaca caggaagaag gacaacagtt agcacggcag 300
cttaaggtaa catacatgga ggcatcagca aagattagga tgaatgtaga tcaantttcc 360
atgaacttgt ccgggttatc aggaaatttc aagancagga atgtcctctt cacagaccac 420
acggaaagaa aagccagaaa gctg cattgt g 451

<210> 374
<211> 425
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(425)
<223> 3' terminal sequence. cd44 antigen (homing function and indian blood group system) (CD44) gene.

<400> 374
gaagatcgaa gaagtacaga tatttattat gaatcagttt aaaccctttt gtgcctctga 60
caaagtaact ttaaaaaatt atactgatca aaggactgat ccagggttta atatttcaaa 120
aacacagata aatagtttac tacagataaa tagcttcacc c tttggtgtc ctcccagaag 180
catctgaaaa atttctagag ggggtctgtt gaagatgtgt aactagtaca ccccaacccc 240
caacctcagt ggaaagcaat gcccagggat taggctatgg aagggcaaaa tggacccatt 300
caaatttcct cccagggacc aggccctatt aaccctggga aatgtcctta gctggtgggg 360
gaaaggttgg cgattcagga atacatatgt gtagtttttg ttagaagcca tccatagcac 420
acccg 425

<210> 375
<211> 478
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_featur e
<222> (1)..(478)
<223> 5' terminal sequence. cd44 antigen (homing function and indian blood group system) (CD44) gene.

<400> 375
ggcgttccag ttcccacttg gaggccnttc atccctcggg tgtgctatgg atggcttcta 60
acaaaaacta cacatatgta ttcctgatcg ccaacct ttc ccccaccagc taaggacatt 120
tcccagggtt aatagggcct ggtccctggg aggaaatttg aatgggtcca ttttgccctt 180
ccatagccta atccctgggc attgctttcc actgaggttg ggggttgggg tgtactagtt 240
acacatcttc aacagacccc ctctangaaa tttttcagat gcttctggga gacacccaaa 300
ggggaaagct attta tctgt agtaaactat ttatctgtgt ttttgaaata ttaaaccctg 360
gatcagtcct ttgatcagta taaatttttt aaagttactt ttgtcagagg caccaaaggg 420
tttaaactga ttcataaata aatatcngga cttcctcgat cttccaaaaa aaaaaaaa 478

<210> 376
<211> 1794
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1794)
<223> cd44 antigen (homing function and indian blood group system) (CD44) gene.

<400> 376
cccgcgccct ccgttcgctc cggacaccat ggacaagttt tggtggcacg ca gcctgggg 60
actctgcctc gtgccgctga gcctggcgca gatcgatttg aatataacct gccgctttgc 120
aggtgtattc cacgtggaga aaaatggtcg ctacagcatc tctcggacgg aggccgctga 180
cctctgcaag gctttcaata gcaccttgcc cacaatggcc cagatggaga aagctctgag 240
catcggattt gagacctgca ggtatgggtt c atagaaggg catgtggtga ttccccggat 300
ccaccccaac tccatctgtg cagcaaacaa cacaggggtg tacatcctca catacaacac 360
ctcccagtat gacacatatt gcttcaatgc ttcagctcca cctgaagaag attgtacatc 420
agtcacagac ctgcccaatg cctttgatgg accaattacc ataactattg ttaaccgtga 480
tggcacccgc tatgtccaga aaggagaata cagaacgaat cctgaagaca tctacccccag 540
caaccctact gatgatgacg tgagcagcgg ctcctccagt gaaaggagca gcacttcagg 600
aggttacatc ttttacacct tttctactgt acaccccatc ccagacgaag acagtccctg 660
gatcaccgac agcacagaca gaatccctgc taccagagac caagacacat t ccacccccag 720
tgggggggtcc cataccactc atggatctga atcagatgga cactcacatg ggagtcaaga 780
aggtggagca aacacaacct ctggtcctat aaggacaccc caaattccag aatggctgat 840
catcttggca tccctcttgg ccttggcttt gattcttgca gtttgcattg cagtcaacag 900
tcgaagaagg tgtgggcaga agaaaaagct agtgatcaac agtggcaatg gagctgtgga 960
ggacagaaag ccaagtggac tcaacggaga ggccagcaag tctcaggaaa tggtgcattt 1020
ggtgaacaag gagtcgtcag aaactccaga ccagtttatg acagctgatg agacaaggaa 1080
cctgcagaat gtggacatga agattggggt gtaacaccta caccattatc ttggaaagaa 1140
acaaccgttg gaaacataac cattacaggg agctgggaca cttaacagat gcaatgtgct 1200
actgattgtt tcattgcgaa tctttttag cataaaattt tctactcttt ttgttttttg 1260
tgttttgttc tttaaagtca ggtccaattt gtaaaaacag cattgctttg taaattaggg 1320
cccaattaat aatcagcaag aatttgatcg ttcagttcca cttg gaggcc ttcatcctcg 1380
ggtgtgctat ggatggcttc taacaaaaac tacacatatg tattcctgat cgccaacctt 1440
tcccccacca gctaaggaca tttcccaggg ttaatagggc ctggtccctg ggaggaaatt 1500
tgaatgggtc cattttgccc ttccatagcc taatccctgg gcattgcttt ccactgaggt 1560
tggggtgtac tagttacac a tcttcaacag acccccctcta gaaatttttc agatgcttct 1620
gggagacacc aaagggtgaa gctatttatc tgtagtaaac tatttatctg tgtttttgaa 1680
atattaaacc ctggatcagt cctttgatca gtataatttt ttaaagttac tttgtcagag 1740
gcacaaaagg gtttaaactg attcataata aatatctgta cttcttcgat cttc 1794

<210> 377
<211> 452
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(452)
<223> 3' terminal sequence. cyclin -dependent kinase inhibitor 3 (cdk2 -associated dual specificity phosphatase) (CDKN3) gene.

<400> 377
ttttgtcaat aaaactttag gaatatctgc acatgtacat ttacattcaa gttgataaca 60
ctggtggttt catttcaata caaattatgc tagagaactg acatttcaga catggtcata 120
tatatgctat ttgaattcct ttatcttcga tacagatctt gattgtgaat ctc ttgatga 180
tagatgtgca gctaatttgt cccgaaactc atgaagataa ttgtattgct tgatggtctg 240
tattgccccg gatcctctta ggtctcgcag gctgtctatg gcttgctctg gtgatattgt 300
gtcagacagg tatagtagga gacaagcagc tacaagacaa gatctcccaa gtcctccata 360
gcagtgtatt aagggttttc cggtaatttt t aaggcaggt tgtaagcnct tccattattt 420
cacagcagct ggccatgtcn ggagtccccc ca 452

<210> 378
<211> 472
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(472)
<223> 5' terminal sequence. cyclin -dependent
kinase inhibitor 3 (cdk2 -associated dual
specificity phosphatase) (CDKN3) gene.

<400> 378
ggcacgagcg gcaactggtc tcgacgtggg gcggccanga ctgaagccca ngtntcaata 60
caaacaagtg agtttgactc atcagatg aa gagcctattg aagatgaaca gactccaatt 120
catatatcat ggctatcttt gtcacgagtg aattgttctc agtttctcgg tttatgtgct 180
cttccaggtt gtaaatttaa agatgttaga agaaatgtcc aaaaagatac agaagaacta 240
aagagctgtg gtatacaacg acatatttgt tttctgcacc agaggggaac tgtcaaaata 300
tagagtccca aaccttctgg atctctacca gcaatgtgga attatcaccc atcatcatcc 360
aatccgcaga tggagggact cctgacatag ccagctgctg tgaaataatg gaagagctta 420
caacctgcct taaaaattac cgaaaaacct taatacactg ctatggagga ct 472

<210> 379
<211> 639
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(639)
<223> cyclin-dependent kinase inhibitor 3
(cdk2-associated dual specificity phosphatase)
(CDKN3) gene.

<400> 379
atggagccgc ccagttcaat acaaacaagt gagtttgact catcagatga agagcctatt 60
gaagatgaac agactccaat tcatatatca tggctatctt tgtcacgagt gaattgttct 120
cagtttctcg gtttatgtgc tcttccaggt tgtaaattta aagatgttag aagaaatgtc 180
caaaaagata cagaagaact aaagagctgt ggtatacaag acatatttgt tttctgcacc 240
agaggggaac tgtcaaaata tagagtccca aaccttctgg atctctacca gcaatgtgga 300
attatcaccc atcatcatcc aatcgcagat ggagggactc ctgacatagc cagctgctgt 360
gaaataatgg aagagcttac aacctgcctt aaaaattacc gaaaaacctt aatacactgc 420

tatggaggac ttgggagatc ttgtcttgta gctgcttgt c tcctactata cctgtctgac 480
acaatatcac cagagcaagc catagacagc ctgcgagacc taagaggatc cggggcaata 540
cagaccatca agcaatacaa ttatcttcat gagtttcggg acaaattagc tgcacatcta 600
tcatcaagag attcacaatc aagatctgta tcaagataa 639

<210> 380
<211> 487
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(487)
<223> 5' terminal sequence. max-interacting
protein 1 (MXI1) gene.

<400> 380
aagtggcgac tggaacagct gcagggtcct caggagatgg aacgaatacg aatggacaga 60
attggatcaa ctatttcttc agatcgttct gattcagagc gagaggagat tgaagtggat 120
gttgaaagca cagagttctc ccatggagaa gtggacaata taagtaccac cagcatcagt 180
gacattgatg accacagcag cctgccgagt attgggagtg acgagggtac tccagtgcca 240
gtgtcaaact ttcattcact tcatagaacc cagcatgaca taacagtgca gggaaaatat 300
tcactgggcc attcatacaa acaatctctt aaattgggtt catgatgcag tctcctcttt 360
aaaacaaaac aaaacaaaac aaactatact tgaacaaaag ggtcagagga ctgttttaag 420
caatacttag caaaagtggg cagctcccaa gagacaattt cagatttcat ttggaaatcc 480
catttta 487

<210> 381
<211> 2416
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(2416)
<223> max-interacting protein 1 (MXI1) gene.

<400> 381
agattatgat cgcctgaggc ccctctccta cccagatacc gatgttatac tgatgtgttt 60
ttccttttt ttttttttt tttaagtaat taagggtagt taaattattt aaagtataca 120
aagtccaaac agccaggggt aaggtctcca agaggccttc ccagggtaag ggagtgcgga 180
gaggccccgg tcgccacccg cggtgcccat ggagcgggtg aagatgatca acgtgcagcg 240
tctgctggag gctgccgagt ttttggagcg ccgggagcga gagtgtgaac atggctacgc 300
ctcttcattc ccgtccatgc cgagcccccg actgcagcat tcaaagcccc cacggaggtt 360
gagccgggca cagaaacaca gcagcgggac gagcaacacc a gcactgcca acagatctac 420
acacaatgag ctggaaaaga atcgacgagc tcatctgcgc ctttgtttag aacgcttaaa 480
agttctgatt ccactaggac cagactgcac ccggcacaca acacttggtt tgctcaacaa 540
agccaaagca cacatcaaga aacttgaaga agctgaaaga aaaagccagc accagctcga 600
gaatttggaa cgagaacaga gatttttaaa gtggcgactg gaacagctgc agggtcctca 660
ggagatggaa cgaatacgaa tggacagcat tggatcaact atttcttcag atcgttctga 720
ttcagagcga gaggagattg aagtggatgt tgaaagcaca gagttctccc atggagaagt 780
ggacaatata agtaccacca gcatcagtga cattgatgac cacagcagcc tgccgagtat 8 40
tgggagtgac gagggttact ccagtgccag tgtcaaactt tcattcactt catagaaccc 900

agcatgacat aacagtgcag ggcaaaatat tcactgggcc aattcaatac aaacaatctc 960
ttaaattggg ttcatgatgc agtctcctct ttaaaacaaa acaaaacaaa acaaaactat 1020
acttgaacaa aagggtcaga ggacctgtat ttaagcaaa t acttagcaaa aagtggggca 1080
gagctcccaa ggagaacaaa tattcagaat attcatattg gaaaaatcac aatttttaat 1140
ggcagcagaa aacttgtgtg aaatttttctt gatttgagtt gattgagaag aggacattgg 1200
agatgccatc ctctttctct tttctcgttt gctcatacta cattgagtag acacatttaa 1260
ggatggggtt atg aaccctt cctgagcttt atggtcctaa aagcaaaata aaaactattc 1320
gaatgaaaag acaagaaaat caggtattaa tcttggatag ctaataatga gctattaaaa 1380
ctcagcctgg gacagtttat catgaagcct gtggatgatc aatcctttat tattattttt 1440
ttttttgaa aaaagctcat ttcatgctct gcaaaaggag agactcccat ga agcctttt 1500
gaaagggatc atcatgcagc tcaactttct gttggattcc atgctaagca agctaacctt 1560
atcctgcatt gttagcacta ggcacccagc tgccacctct ccatcctgct gcccttaggc 1620
cacatgggag cagtccatgc atgacagcct ctatcctaca aggcctatga gtatggattg 1680
gggggccaa aaggaaaaag ctccatg tgc ctctttgtct gcgtgggtca gaagagttgt 1740
gcacgcagat tagcaggcca aggtctgagc cacagcagca tttttatttc agattttgat 1800
aactgtttat atgtgttgaa aaccaaaatg acatcttttt aaagcttatc cataaaaaaa 1860
aatagatgtc ttttatagtg gaaaaacaca tggggaaaaa aatcatctat tttgatgcag 1920
catttgataa tgataaaaca cctcacacct cactctttat agtgcacaaa atgaatgagg 1980
tctgggctag gtagaaaaag ggtcaatgct atttttgttt ttagaatcat tacctttac 2040
cagcttttaa ccatctgata tctatagtag acacactatc atagttaaca tagttaagtt 2100
cagcacttgt ctcattttaa tgtaaagatt tgcttccatt ttcctacagg cagtctctct 2160
cttcctcaca gtcccactgt gcaggtgcta ttgttactct tacgaatatt ttcagtaatg 2220
ttatttttctt ctaagtgaaa tttctagcct gcactttgat gtcatgtgtt ccctttgtct 2280
ttcaaactcc aaggttcccc tgtggccctc tcccttaccc tgggaaggcc tcttggagac 2340
cttacccctg gctgt ttgga ctttgtatac tttaaataat ttaactaccc ttaattactt 2400
aaaaaaaaaa aaaaaa 2416

<210> 382
<211> 378
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(378)
<223> 3' terminal sequence. homeo box a5 (HOXA5)
gene.

<400> 382
ttttttttt ttgttatagt tacttcaagt aacacagctt gcttcatata aataagttaa 60
aacatctatt ttttttcaag acaaagccat tcaggacaaa gagatgaaca gaaagcagat 120
ctacttatac aggcgc tata atggcaataa acaggctcat gattaaaaga tgaattaggg 180
caacgagaac agggcttctt cacagaagga acacaaggga gtttcagaaa gtcaccttag 240
tactgacact acgcgggatc cgctaaatac tgctcagtac tttaaacgct cagatactca 300
gggacggaag gccctccctt gcccgcggnc atnctccatg gcttttcagc ttattatc tt 360
ttttccactt caatcncc 378

<210> 383
<211> 439
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature
<222> (1)..(439)
<223> 5' terminal seque nce. homeo box a5 (HOXA5)
gene.

<400> 383
aaatcaagca cacatantan aaaacaaatg agctcttatt ttgtaaactc attttgcggt 60
cgctatccaa atggcccgga ctaccagttg cataattatg gagatcatag ttccgtganc 120
gagcaattca gggactcggc gagcatgcac tccggcaggt acggctacgg ctacaatggc 180
atggatctca gcgtcggcng ctcgngctcc ngcactttgg ctccggagag cgcgcccgca 240
gctacgtnca agcgccacgc ggcncactcc aagcccaggt acagcnagcc ggccacgtcc 300
acgcactctn cctcancncg atccgctgcn ctgctccgnc gtnggcccct tcgcccngga 360
ancgacanna ccaanggcgg gaaaaactcc cttaaggca a ctccagcngg cgcctcgggc 420
cgacngccgg aagcaccca 439

<210> 384
<211> 813
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(813)
<223> homeo box a5 (HOXA5) gene.

<400> 384
atgagctctt attttgtaaa ctcattttgc ggtcgctatc caaatggccc ggactaccag 60
ttgcataatt atggagatca cagttccgtg agcgagcaat tcagggactc ggcgagcatg 120
cactccggca ggtacggcta cggctacaat ggcatggatc tcagcgtcgg ccgctcgggc 180
tccggccact ttggctccgg agagcgcgcc cgcagctacg ctgccagcgc cagcgcggcg 240
cccgccgagc ccaggtacag ccagccggcc acgtccacgc actctcctca gcccgatccg 300
ctgccctgct ccgccgtggc cccctcgccc ggcagcgaca cgcaccacgg cgggaaaaac 360
tccctaagca actccagcgg cgcctcggcc gacgccggca gc acccacat cagcagcaga 420
gaggggttg gcacggcgtc cggagccgag gaggacgccc ctgccagcag cgagcaggcg 480
agtgcgcaga gcgagccgag cccggcgccg cccgcccaac cccagatcta cccctggatg 540
cgcaagctgc acataagtca tgacaacata ggcggcccgg aaggcaaaag ggcccggacg 600
gcctacacgc gctaccagac cctggagctg gagaaggagt tccacttcaa ccgttacctg 660
acccgcagaa ggaggattga aatagcacat gctctttgcc tctccgagag acaaattaaa 720
atctggttcc aaaaccggag aatgaagtgg aaaaaagata ataagctgaa aagcatgagc 780
atggccgcgg caggaggggc cttccgtccc tga 813

<210> 385
<211> 447
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(447)
<223> 3' terminal sequence. x -box binding protein
1 (XBP1) gene.

<400> 385

gcattgtacc ttttaattgc atgggtagtt ttaaataaat ggagaaagca cctttcagaa 60
gctacactag caggaaaaaa ttccatcaag catttacata gtaaatttct ataatttcac 120
aaaagattct tgatcttact tgaagtatac atgagggaaa gagccccctc agcaggtgtt 180
cccgttgctt acagaagcaa actaaaggac ctaaaactgg aggcaagcca ggatgc caaa 240
aaggggaag agaaatgata aagaaccatt cataaattcc atgtctactt caagacattt 300
gtctaatgac ccttacataa taagtatttt agggaaaact accacccttt taagataaaa 360
gtacaatctt aaaagctgta gttctcaatt atagtaatat ttcntacttc cagtaatatg 420
tctcaatacc ttggactgct ggatgtc 447

<210> 386
<211> 462
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(462)
<223> 5' terminal sequence. x-box binding protein
1 (XBP1) gene.

<400> 386
aagaacctgt agaagatgac ctcgttccgg agctgggtat ctcaaatctg ctttcatcca 60
gccactgccc aaagccatct tcctgcctac tggatgctta cagtgactgt ggatacgggg 120
gttccctttc cccattcagt gacatgtcct ctctgcttgg tgtaaaccat tcttgggagg 180
acacttttgc caatgaactc tttccccagc tgattagtgt ctaaggaatg atccaatact 240
gttgcccttt tccttgacta ttacactgcc tggaggatag cagagaagcc tgtctgtact 300
tcattcaaaa agccaaaata gagagtatac agtcctagag aattcctcta tttgttcaga 360
tctcatagat gacccccagg tattgtcttt tgacatccca agcagtccaa ggtattggag 420
acatattact gggaagtaaa gaaatattac tnataattgg ag 462

<210> 387
<211> 1836
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1836)
<223> x-box binding protein 1 (XBP1) gene.

<400> 387
ggcgctgggc ggctgcggcg cgcggtgcgc ggtgcgtagt ctggagctat ggtggtggtg 60
gcagccgcgc cgaacccggc cgacgggacc cctaaagttc tgcttctgtc ggggcagccc 120
gcctccgccg ccggagcccc ggccggccag gccctgccgc tcatggtgcc agcccagaga 180
ggggccagcc cggaggcagc gagcgggggg ctgccccagg cgcgcaagcg acagcgcctc 240
acgcacctga gccccgagga gaaggcgctg aggaggaaac tgaaaaacag agtagcagct 300
cagactgcca gagatcgaaa gaaggctcga atgagtgagc tggaacagca agtggtagat 360
ttagaagaag agaaccaaaa acttttgcta gaaaatcagc ttttacgaga gaaaactcat 42 0
ggccttgtag ttgagaacca ggagttaaga cagcgcttgg ggatggatgc cctggttgct 480
gaagaggagg cggaagccaa ggggaatgaa gtgaggccag tggccgggtc tgctgagtcc 540
gcagcactca gactacgtgc acctctgcag caggtgcagg cccagttgtc acccctccag 600
aacatctccc catggattct ggcggtattg actcttcaga ttcagagtct gatatcctgt 660
tgggcattct ggacaacttg gacccagtca tgttcttcaa atgcccttcc ccagagcctg 720

ccagcctgga ggagctccca gaggtctacc cagaaggacc cagttcctta ccagcctccc 780
tttctctgtc agtggggacg tcatcagcca agctggaagc cattaatgaa ctaattcgtt 840
ttgaccacat atataccaag cccctagtct tagagatacc ctctgagaca gagagccaag 900
ctaatgtggt agtgaaaatc gaggaagcac ctctcagccc ctcagagaat gatcaccctg 960
aattcattgt ctcagtgaag gaagaacctg tagaagatga cctcgttccg gagctgggta 1020
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acagtgactg tggatacggg ggttcccttt ccccattcag tgacatgtcc tctctgcttg 1140
gtgtaaacca ttcttgggag gacacttttg ccaatgaact ctttccccag ctgattagtg 1200
tctaaggaat gatccaatac tgttgccctt ttccttgact attacactgc ctggaggata 1260
gcagagaagc ctgtctgtac ttcattcaaa aagc caaaat agagagtata cagtcctaga 1320
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gcagtccaag gtattgagac atattactgg aagtaagaaa tattactata attgagaact 1440
acagctttta agattgtact tttatcttaa aagggtggta gttttcccta aaatacttat 1500
tatgtaaggg tcattagaca aatgtcttga agtagacatg gaatttatga atggttcttt 1560
atcatttctc ttccccctt ttggcatcct ggcttgcctc cagttttagg tcctttagtt 1620
tgcttctgta agcaacggga acacctgctg agggggctct ttccctcatg tatacttcaa 1680
gtaagatcaa gaatcttttg tgaaattata gaaatttact atgtaaat gc ttgatggaat 1740
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caattaaaag gtacaatgca aaaaaaaaaa aaaaaa 1836

<210> 388
<211> 433
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificia l Sequence:primer

<220>
<221> misc_feature
<222> (1)..(433)
<223> 3' terminal sequence. tumor necrosis factor,
alpha-induced protein 3 (TNFAIP3) gene.

<400> 388
tttttcttaa ataatttatt ttttaatgtt gactcttgtg aaaagttaca tttatttaga 60
aaaacttgaa gaaatccaac aaagaatagg tggctttcta ttagggacaa ttaaatgtgc 120
aaatttcaaa tacttttttat aataagtata aataattact ttttttcaca ttaagaatgg 180
aaataatgat caacacaana tattaagata tcaactttaa gagaattaga tgaaaacact 240
gaagtttatt tgngtatcct tggaaangaa ttataaagat tcgtctggga aaaactt agg 300
gggctctaag gggaaagttg tgcctaatag tatgagtaaa ggctgtgtag agttatggat 360
cacaaatatt ttcaggccnt aagtacagac ccccnaaatg gcagccttta tcnccgggga 420
aaatgcattt ccc 433

<210> 389
<211> 206
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(206)
<223> 5' terminal sequence. tumor necrosis factor,
alpha-induced protein 3 (TNFAIP3) gene.

<400> 389

ctcaaccagc tgccttttta aaggga gctc tagtcctttt tgtgtaattc actttattta 60
ttttattaca aacttcaaga ttatttaagt gaagatattt cttcagctct ggggaaaatg 120
ccacagtgtt ctcctgagag aacatccttg ctttgagtca ggctgtgggc aagttcctga 180
ccacagggag taaattngnn cctctt 206

<210> 390
<211> 4426
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(4426)
<223> tumor necrosis factor, alpha -induced protein
3 (TNFAIP3) gene.

<400> 390
tgccttgacc aggacttggg actttgcgaa aggatcgcgg ggcccggaga ggtgttggag 60
agcacaatgg ctgaacaagt ccttcctcag gctttgtatt tgagcaatat gcggaaagct 120
gtgaagatac gggagagaac tccagaagac atttttaaac ctactaatgg gatcattcat 180
cattttaaaa ccatgcaccg atacacactg gaaatgttca gaacttgcca gtt ttgtcct 240
cagtttcggg agatcatcca caaagccctc atcgacagaa acatccaggc caccctggaa 300
agccagaaga aactcaactg gtgtcgagaa gtccggaagc ttgtggcgct gaaaacgaac 360
ggtgacggca attgcctcat gcatgccact tctcagtaca tgtggggcgt tcaggacaca 420
gacttggtac tgaggaaggc gctgttcagc a cgctcaagg aaacagacac acgcaacttt 480
aaattccgct ggcaactgga gtctctcaaa tctcaggaat ttgttgaaac ggggctttgc 540
tatgatactc ggaactggaa tgatgaatgg gacaatctta tcaaaatggc ttccacagac 600
acacccatgg cccgaagtgg acttcagtac aactcactgg aagaaataca catatttgtc 660
ctttgcaaca tcctcagaag gccaatcatt gtcatttcag acaaaatgct aagaagtttg 720
gaatcaggtt ccaatttcgc ccctttgaaa gtgggtggaa tttacttgcc tctccactgg 780
cctgcccagg aatgctacag ataccccatt gttctcggct atgacagcca tcattttgta 840
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gaccggggaa gatttgaaga cttaaaagtt cacttttga cagatcctga aaatgagatg 960
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aacagcgagc aggggaggag agaggggcac gcccagaatc ccatggaacc ttccgtgccc 1200
cagctttctc tcatggatgt aaaatgtgaa acgcccaact gccccttctt catgtctgtg 1260
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tgtcaccagc gttcca agtc agatccctcg cggctcgtcc ggagcccctc cccgcattct 1800
tgccacagag ctggaaacga cgcccctgct ggctgcctgt ctcaagctgc acggactcct 1860
ggggacagga cggggacgag caagtgcaga aaagccggct gcgtgtattt tgggactcca 1920
gaaaacaagg gcttttgcac actgtgtttc atcgagtaca gagaaaacaa acatt ttgct 1980
gctgcctcag ggaaagtcag tcccacagcg tccaggttcc agaacaccat tccgtgcctg 2040
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cctgcaagaa gtggggcctc gagctgtcag tcatcatggt gctatcctct gaacccctca 2520
gctgccactg caacagtggg cttaagggtg tctgagcagg agaggaaaga taagctcttc 2580
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tgagactgaa catgttcaca ttgacagaaa aacaagctgc tctttataat atgcaccttt 3120
taaaaaatta gaatatttta ctgggaagac gtgtaactct ttgggttatt actgtcttta 3180
cttctaaaga agttagcttg aactgaggag taaaagtgtg tacatatata atataccctt 3240
acattatgta tgagggattt ttttaaatta t attgaaatg ctgccctaga agtacaatag 3300
gaaggctaaa taataataac ctgttttctg gttgttgttg gggcatgagc ttgtgtatac 3360
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ccaggaaaga aggaattgca tccaaggtat acatacatat tcatcgatgt ttcgtgcttc 3660
tccttatgaa actccagcta tgtaataaaa aactatactc tgtgt tctgt taatgcctct 3720
gagtgtccta cctccttgga gatgagatag ggaaggagca gggatgagac tggcaatggt 3780
cacagggaaa gatgtggcct tttgtgatgg ttttattttc tgttaacact gtgtcctggg 3840
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tttttcccag acgaatcttt ataatttcct ttccaaagat accaaataaa cttcagtgtt 4200
ttcatctaat tctcttaaag ttgatatctt aatattttgt gttgatcatt atttccattc 4260
ttaatgtgaa aaaaagtaat tatttatact tattataaaa agtatttgaa atttgcacat 4320
ttaattgtcc ctaatagaaa gccacctatt ctt tgttgga tttcttcaag tttttctaaa 4380
taaatgtaac ttttcacaag agtcaacatt aaaaaataaa ttattt 4426

<210> 391
<211> 440
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(440)
<223> 3' terminal sequence. serum response factor
(c-fos serum response element -binding
transcription factor) (SRF) gene.

<400> 391
tttttttgtg cacaaaaatg atacatttat tgaaagagta ttttttttt aatacaaaag 60
aaagctctgt acataggact gtgaccatgt ccactattcc tgggtcagca tcccagggga 120
agtagaaacc actgacatac acactcacat tcaagcacac acactcactc aggcgcacac 180
acccacacac acatacccca gagccaccga ggaagggaaa caccaagggt cgctgcacat 240
aaaaatatca cctcaactca tccctgacac acgcatgtcc tcccaaggcc acgctcacac 300
aacacacatt ataagcactt tgcctgattc actcactngg gtctgtcttt tgtgggaagg 360
agaggaagaa ttcatcaaag gtctcctccc catgggtngg gggagtgggg agtgagtgag 420
tgatggtgga gtgaaacaag 440

<210> 392
<211> 471
<212> DNA
<213> Artificial Sequen ce

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(471)
<223> 5' terminal sequence. serum response factor
(c-fos serum response element-binding
transcription factor) (SRF) gene.

<400> 392
aattcggcac gaaggcagga atgggggtca gaagaagtgg gagcagcttc ttgggctgag 60
tgcagcaaag gggagccaga aatgggcagt tctcccaggg agtgagcagc tactgtaact 120
tttttaaatt aagacaaaaa gccttgaaga aaatgacttt atttttctaa gtgtaacctc 180
agtatttatg taatttgtac aggggccatg ccacnccccc tcctcccccc ttgngtnaga 240
ccttgagggt gggccagcat agggggggagg gtcttttacc ctgtgtcaga gcctaccttc 300
accacctata tccagaaggg gagcttttc agaaacaggg cagcagtggg gtgaaatttt 360
cttaacccct aagactgcct tcagtaagga acaagctggc ttctgtgatt aggtgaaggg 420
atgggggaag attttaatgc acagccta gt tatcaagggg atgatttgcc g 471

<210> 393
<211> 4201
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(4201)
<223> serum response factor (c-fos serum response
element-binding transcription factor) (SRF) gene.

<400> 393
ggtcgggggа tccctccgcc gccagcgcgt ggtcccggcc ccctccaccc gccgtctcgg 60
ccgcggccag cagcccctgc ccccgggggg acgctgacgg ccgcccggcg cgccgcccta 120
gcagacggac agggggcgct gcgcgcggcc tggggcaacc cgggccac ag gggcaggaaa 180
gtgagggccc aggtcggccc gggcgtgcag gggcccccggg ttcgcagcgg cggccgcggc 240
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ggctgcggcg gctccgattc ctcgctgact gcccgtccgc cctcctgcat cgagcgccat 360
gttaccgacc caagctgggg ccgcgg cggc tctgggccgg ggctcggccc tgggggggcag 420
cctgaaccgg accccgacgg ggcggccggg cggcggcggc gggacacgcg gggctaacgg 480
gggccgggtc cccgggaatg gcgcgggggct cgggcccggc cgcctggagc gggaggctgc 540
ggcagcggcg gcaaccaccc cggcgcccac cgcgggggcc ctctacagcg gcagcgaggg 600
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acaggtgctg ttgctggtgg ccagtgagac aggccatgtg tatacctttg ccacccgaaa 960
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gccagactct ccaccccgtt cag accccac aacagaccag agaatgagtg ccactggctt 1080
tgaagagaca gatctcacct accaggtgtc ggagtctgac agcagtgggg agaccaagga 1140

cacactgaag ccggcgttca cagtcaccaa cctgccgggt acaacctcca ccatccaaac 1200
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ctacctggca ccagtgtctg ctagtgtcag ccccagtgct gtcagcagtg ccaatgggac 1320
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aggagggagg cggggaggag gaacgggcag ccacaggact gagccctctc actccagcca 2040
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cttgccccag tttggggtgc caagatggaa gtcacctttc tgggctttct cctggagact 3660
agctggggct tatgggtggc tttcaaggct ggggcatggc aaatcagggg ccagagagca 3720
ggggagcttg ggactcaggt ctgtaactgc ccagcccctt ttctctgctc ttgtttcact 3780
ccaccatcac tcactcactc cccactcccc cacccatggg gaggagacct ttgatgaatt 3840
cttcctctcc ttccc acaaa agacagaccc agtgagtgaa tcaggcaaag tgcttataat 3900
gtgtgttgtg tgagcgtggc cttgggagga catgcgtgtg tcagggatga gttgaggtga 3960
tatttttatg tgcagcgacc cttggtgttt cccttcctcg gtggctctgg ggtatgtgtg 4020
tgtgggtgtg tgcgcctgag tgagtgtgtg tgcttgaatg tgagtgtgta tgtc agtggt 4080
ttctacttcc cctgggatgc tgacccagga atagtggaca tggtcacagt cctatgtaca 4140
gagctttctt ttgtattaaa aaaaaatact ctttcaataa atgtatcatt tttgtgcaca 4200
g 4201

<210> 394
<211> 563
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(563)
<223> 3' terminal sequence. sry (sex determining region y)-box 9 (campomelic dysplasia, autosomal sex-reversal) (SOX9) gene.

<400> 394
tttttaatgc aatgtatatt tattgtaaac aataatatac aaaaaaaaaa aagagaaaga 60
aaaagggaaa ggtaagtttc acggagagaa caaaaggttt ggggctggga gggaaacaag 120
tgaaacaaac aaaacacgaa cacaaaccaa agcttttacc taaagacaaa atatgattta 180
aatgccaggt ttcttaagtt acaga agtat ctttttaaaa agatctgctt ttatacagaa 240
attgaaggat gccatattat gagtgcttta agattttatt ctactgactt ctaaaactgt 300
taatatatct ttttttaaat aaaaaaaaaa gtttgctgtc ttttttaaaa agcaatcctc 360
aaactctcta gccacagcag taattaagat taaggtctgt cagtgggctg atcccctcca 420
ggtagcctcc ctcactccaa gagaagatgc ngagaaatat gggatggaca catgcctgca 480
tgtttttgtg nccaaacaca cacanaccca nacacacnca caatataagg cngccccaag 540
gtctntggcc gaaancctgg caa 563

<210> 395
<211> 3936
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(3936)
<223> sry (sex determining region y) -box 9 (campomelic dysplasia, autosomal sex -reversal) (SOX9) gene.

<400> 395
ggagagccga aagcggagct cgaaactgac tggaaacttc agtggcgcgg agactcgcca 60
gtttcaaccc cggaaacttt tctttgcagg aggagaagag aaggggtgca agcgccccca 120
cttttgctct ttttcctccc ctcctcctcc tctccaattc gcctcccccc acttggagcg 180
ggcagctgtg aactggccac cccgcgcctt cctaagtgct cgccgcggta gccggc cgac 240
gcgccagctt ccccgggagc cgcttgctcc gcatccgggc agccgagggg agaggagccc 300
gcgcctcgag tccccgagcc gccgcggctt ctcgcctttc ccggccacca gcccccctgcc 360
ccgggcccgc gtatgaatct cctggacccc ttcatgaaga tgaccgacga gcaggagaag 420
ggcctgtccg gcgcccccag ccccaccatg tccg aggact ccgcgggctc gccctgcccg 480
tcgggctccg gctcggacac cgagaacacg cggccccagg agaacacgtt ccccaagggc 540
gagcccgatc tgaagaagga gagcgaggag gacaagttcc ccgtgtgcat ccgcgaggcg 600
gtcagccagg tgctcaaagg ctacgactgg acgctggtgc ccatgccggt gcgcgtcaac 660
ggctccagca agaacaagcc gcacgtcaag cggcccatga acgccttcat ggtgtgggcg 720
caggcggcgc gcaggaagct cgcggaccag tacccgcact tgcacaacgc cgagctcagc 780
aagacgctgg gcaagctctg gagacttctg aacgagagcg agaagcggcc cttcgtggag 840
gaggcggagc ggctgcgcgt gcagcacaag aaggaccacc cggattacaa gtac cagccg 900
cggcggagga agtcggtgaa gaacgggcag gcggaggcag aggaggccac ggagcagacg 960
cacatctccc ccaacgccat cttcaaggcg ctgcaggccg actcgccaca ctcctcctcc 1020
ggcatgagcg aggtgcactc ccccggcgag cactcggggc aatcccaggg cccaccgacc 1080
ccacccacca cccccaaaac cgacgtgcag ccgggcaagg ctgacctgaa gcgagagggg 1140
cgccccttgc cagaggggggg cagacagccc cctatcgact tccgcgacgt ggacatcggc 1200
gagctgagca gcgacgtcat ctccaacatc gagaccttcg atgtcaacga gtttgaccag 1260
tacctgccgc ccaacggcca cccgggggtg ccggccacgc acggccaggt cacctacacg 1320
ggcagctacg gcatcagcag caccgcggcc acccccggcga gcgcgggcca cgtgtggatg 1380
tccaagcagc aggcgccgcc gccacccccg cagcagcccc cacaggcccc gccggccccg 1440

caggcgcccc cgcagccgca ggcggcgccc ccacagcagc cggcggcacc cccgcagcag 1500
ccacaggcgc acacgctgac cacgctgagc agcgagccgg gcca gtccca gcgaacgcac 1560
atcaagacgg agcagctgag ccccagccac tacagcgagc agcagcagca ctcgccccaa 1620
cagatcgcct acagcccctt caacctccca cactacagcc cctcctaccc gcccatcacc 1680
cgctcacagt acgactacac cgaccaccag aactccagct cctactacag ccacgcggca 1740
ggccagggca ccggcctct a ctccaccttc acctacatga accccgctca gcgccccatg 1800
tacaccccca tcgccgacac ctctggggtc ccttccatcc cgcagaccca cagcccccag 1860
cactgggaac aacccgtcta cacacagctc actcgacctt gaggaggcct cccacgaagg 1920
gcgacgatgg ccgagatgat cctaaaaata accgaagaaa gagaggacca accagaat tc 1980
cctttggaca tttgtgtttt tttgtttttt tattttgttt tgtttttttct tcttcttctt 2040
cttccttaaa gacatttaag ctaaaggcaa ctcgtaccca aatttccaag acacaaacat 2100
gacctatcca agcgcattac ccacttgtgg ccaatcagtg gccaggccaa ccttggctaa 2160
atggagcagc gaaatcaacg agaaactgga ct ttttaaac cctcttcaga gcaagcgtgg 2220
aggatgatgg agaatcgtgt gatcagtgtg ctaaatctct ctgcctgttt ggactttgta 2280
attatttttt tagcagtaat taaagaaaaa agtcctctgt gaggaatatt ctctatttta 2340
aatatttta gtatgtactg tgtatgattc attaccattt tgaggggatt tatacatatt 2400
tttagataaa attaaatgct cttatttttc caacagctaa actactctta gttgaacagt 2460
gtgccctagc ttttcttgca accagagtat ttttgtacag atttgctttc tcttacaaaa 2520
agaaaaaaaa aatcctgttg tattaacatt taaaaacaga attgtgttat gtgatcagtt 2580
ttgggggtta actttgctta attcctcagg ctttgcgatt taagga ggag ctgccttaaa 2640
aaaaaataaa ggccttattt tgcaattatg ggagtaaaca atagtctaga gaagcatttg 2700
gtaagcttta tgatatatat attttttaaa gaagagaaaa acaccttgag ccttaaaacg 2760
gtgctgctgg gaaacatttg cactctttta gtgcatttcc tcctgccttt gcttgttcac 2820
tgcagtctta agaaagaggt aaaaggcaag caaaggagat gaaatctgtt ctgggaatgt 2880
ttcagcagcc aataagtgcc cgagcacact gccccggtt gcctgcctgg gccccatgtg 2940
gaaggcagat gcctgctcgc tctgtcacct gtgcctctca gaacaccagc agttaacctt 3000
caagacattc cacttgctaa aattatttat tttgtaagga gaggttttaa ttaaaacaaa 3060
aaaaaattct ttttttttt ttttttttca attttacctt ctttaaaata ggttgttgga 3120
gctttcctca aagggtatgg tcatctgttg ttaaattatg ttcttaactg taaccagttt 3180
ttttttattt atctctttaa tctttttttat tattaaaagc aagtttcttt gtattcctca 3240
ccctagattt gtataaatgc ctttttgtcc atcc cttttt tctttgttgt ttttgttgaa 3300
aacaaactgg aaacttgttt cttttttttgt ataaatgaga gattgcaaat gtagtgtatc 3360
actgagtcat ttgcagtgtt ttctgccaca gacctttggg ctgccttata ttgtgtgtgt 3420
gtgtgggtgt gtgtgtgttt tgacacaaaa acaatgcaag catgtgtcat ccatatttct 3480
ctacatcttc tcttggagtg agggaggcta cctggagggg atcagcccac tgacagacct 3540
taatcttaat tactgctgtg gctagagagt ttgaggattg ctttttaaaa aagacagcaa 3600
actttttttt ttatttaaaa aaagatatat taacagtttt agaagtcagt agaataaaat 3660
cttaaagcac tcataatatg gcatccttca atttctgtat aaaagcag at ctttttaaaa 3720
aagatacttc tgtaacttaa gaaacctggc atttaaatca tattttgtct ttaggtaaaa 3780
gctttggttt gtgttcgtgt tttgtttgtt tcacttgttt ccctcccagc cccaaacctt 3840
ttgttctctc cgtgaaactt acctttccct ttttctttct ctttttttttt ttgtatatta 3900
ttgtttacaa taaatataca tt gcattaaa aagaaa 3936

<210> 396
<211> 204
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(204)
<223> 3' terminal sequence. cadherin 15,
m-cadherin (myotubule) (CDH15) gene.

<400> 396
ttttttttttt ttttttttttt ttttttttttt ttttttttca ttcagattta cccaggaggt 60
tgctgtcttt canacaaaga tgaggttcac tggnaggagg caaaggtggg actagggagg 120

tgacccgcat gggccagatn ggagagaaac tcttcccacc ccggcagaag gggcctcttc 180
ctggccgccc catccanact cagg 204

<210> 397
<211> 458
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(458)
<223> 5' terminal sequence. cadherin 15,
m-cadherin (myotubule) (CDH15) gene.

<400> 397
caggacgcct acgacatcag ccagctgcgt cacccgacag cgctgagcct gcctctggga 60
ccgccgccac ttcgcagaga tgccccgcag ncagcctgca cccccagcca ccccgagtgc 120
tgcccaccag ccccctggac atcgccgact tcatcaatga tggcttgga g gctgcagata 180
gtgaccccag tgtgccgcct tacgacacag ccctcatcta tgactacgag ggtgacggct 240
cggtggcggg gacntgagct ccatcctgtc cagccagggc gatgaggacc aggactacga 300
ctacctcaga gactgggggc cccgcttcgc ccggctggca gacatgtatg ggcacccgtg 360
cgggttngga gttacggggc cagatgg gac caccaggcca gggagggtct ttctcctggg 420
gcactgctac ccagacacag aggccggaca gcctgan 458

<210> 398
<211> 2833
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(2833)
<223> cadherin 15, m-cadherin (myotubule) (CDH15)
gene.

<400> 398
acttgcgctg tcactcagcc tggacgcgct tcttcgggtc gcgggtgcac tccggcccgg 60
ctcccgcctc ggccccgatg gacgccgcgt tcctcctcgt cctcgggctg ttggcccaga 120
gcctctgcct gtctttgggg gtt cctggat ggaggaggcc caccaccctg taccctggc 180
gccgggcgcc tgccctgagc cgcgtgcgga gggcctgggt catccccccg atcagcgtat 240
ccgagaacca caagcgtctc ccctaccccc tggttcagat caagtcggac aagcagcagc 300
tgggcagcgt catctacagc atccagggac ccggcgtgga tgaggagccc cggggcgtct 360
tctctatcga caagttcaca gggaaggtct tcctcaatgc catgctggac cgcgagaaga 420
ctgatcgctt caggctaaga gcgtttgccc tggacctggg aggatccacc ctggaggacc 480
ccacggacct ggagattgta gttgtggatc agaatgacaa ccggccagcc ttcctgcagg 540
aggcgttcac tggccgcgtg ctggagggtg cagtcccagg cac ctatgtg accagggcag 600
aggccacaga tgccgacgac cccgagacgg acaacgcagc gctgcggttc tccatcctgc 660
agcagggcag ccccgagctc ttcagcatcg acgagctcac aggagagatc cgcacagtgc 720
aagtggggct ggaccgcgag gtggtcgcgg tgtacaatct gaccctgcag gtggcggaca 780
tgtctggaga cggcctcaca g ccactgcct cagccatcat cacccttgat gacatcaatg 840
acaatgcccc cgagttcacc agggatgagt tcttcatgga ggccatagag gccgtcagcg 900
gagtggatgt gggacgcctg gaagtggagg acagggacct gccaggctcc ccaaactggg 960
tggccaggtt caccatcctg gaaggcgacc ccgatgggca gttcaccatc cgcacggacc 102 0

ccaagaccaa cgagggtgtt ctgtccattg tgaaggccct ggactatgag agctgtgaac 1080
actacgaact caaagtgtcg gtgcagaatg aggccccgct gcaggcggct gcccttaggg 1140
ctgagcgggg ccaggccaag gtccgcgtgc atgtgcagga caccaacgag ccccccgtgt 1200
tccaggagaa cccacttcgg accagcctag cagagggg gc acccccaggc actctggtgg 1260
ccaccttctc tgcccgggac cctgacacag agcagctgca gaggctcagc tactccaagg 1320
actacgaccc ggaagactgg ctgcaagtgg acgcagccac tggccggatc cagacccagc 1380
acgtgctcag cccggcgtcc cccttcctca agggcggctg gtacagagcc atcgtcctgg 1440
cccaggatga cg cctcccag ccccgcaccg ccaccggcac cctgtccatc gagatcctgg 1500
aggtgaacga ccatgcacct gtgctggccc cgccgccgcc gggcagcctg tgcagcgagc 1560
cacaccaagg cccaggcctc ctcctgggcg ccacggatga ggacctgccc ccccacgggg 1620
ccccccttcca cttccagctg agccccaggc tcccagagct cggccggaac t ggagcctca 1680
gccaggtcaa cgtgagccac gcgcgcctgc ggccgcgaca ccaggtcccc gaaggcctgc 1740
accgcctcag cctgctgctc cgggactcgg ggcagccgcc ccagcagcgc gagcagcctc 1800
tgaacgtgac cgtgtgccgc tgcggcaagg acggcgtctg cctgccgggg gccgcagcgc 1860
tgctggcggg gggcacaggc ctcagc ctgg gcgcactggt catcgtgctg gccagcgccc 1920
tcctgctgct ggtgctggtc ctgctcgtgg cactccgggc gcggttctgg aagcagtctc 1980
ggggcaaggg gctgctgcac ggccccccagg acgaccttcg agacaatgtc ctcaactacg 2040
atgagcaagg aggcggggag gaggaccagg acgcctacga catcagccag ctgcgtcacc 2100
cgacagcgct gagcctgcct ctgggaccgc cgccacttcg cagagatgcc ccgcagggcc 2160
gcctgcaccc ccagccaccc cgagtgctgc ccaccagccc cctggacatc gccgacttca 2220
tcaatgatgg cttggaggct gcagatagtg accccagtgt gccgccttac gacacagccc 2280
tcatctatga ctacgagggt gacggctcgg tggcggggac gctgagctcc atcctgtcca 2340
gccagggcga tgaggaccag gactacgact acctcagaga ctgggggccc cgcttcgccc 2400
ggctggcaga catgtatggg cacccgtgcg ggttggagta cggggccaga tgggaccacc 2460
aggccaggga gggtctttct cctggggcac tgctacccag acacagaggc cggacagcct 2520
gaccctgggg cgca actgga catgccactc cccggcctcg tggcagtgat ggcccctgca 2580
gaggcagcct gaggtcaccg ggcccgaccc ccctgggcct ggggcagcct ccttcctgta 2640
ggcgagggcc caagtctggg ggcagaacct gagtgtggat ggggcggcca ggaagaggcc 2700
ccttcctgcc ggggtgggaa gagtttctct ccatcggccc catgcgggtc acc tccctag 2760
tcccaccttt gcctcctacc agtgaacctc atctttgtat gaaagacagc aacctcctgg 2820
gtaaatctga atg 2833

<210> 399
<211> 646
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequ ence:primer

<220>
<221> misc_feature
<222> (1)..(646)
<223> 3' terminal sequence. b -cell cll/lymphoma 2
(BCL2) gene.

<400> 399
tatctcacac tgtactttat ttttcttcac aatattaact agacagacaa ggaaagttta 60
atggcaatgt gacttttcc aacaacacaa acaaagtgcc attata gcta atggtggcca 120
actggagact tactttacct taaccatgta aagtatcctt accgtatttt ttatgtgtac 180
agtgttgcag aatatcagcc acctcttaaa agtatcaatc ttaaaaagag ccatggaagg 240
taaaagtatg aaaatcttga taacaaaagc tttcaataca aaaacactta ttgtacactt 300
atttttattt aaaacaaaaa taac cccagt aactcaaaac aaaagcaaac cttggttgaa 360
aacttaagaa ggtataataa acaaaaccac caaaagaaag cttccccaaa agaaatgcaa 420
tccactgtca ctcttgcaaa ttctaccttg gagggaaaaa cttaatgaaa tgagctatct 480
ggagggccca cggagatttt ccaaaaggtt taggtgcatg gatttactca gtatctacnt 540
acagtcttat ttattaatag ctcaganttc ctgattgagc gagcctttcc atctccacca 600
gtgtccccac ttctgtgcnc acttgggntg cagacaccct gtgttg 646

<210> 400
<211> 465
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(465)
<223> 5' terminal sequence. b -cell cll/lymphoma 2
(BCL2) gene.

<400> 400
ggtatttaaa caataaatgt gcagttttaa ctaacaggat atttaatgac aaccttctgg 60
ttggtaggga catctgtttc taaatgttta ttatgtacaa tacagaaaaa aattttataa 1 20
aattaagcaa tgtgaaactg aattggagag tgataataca agtcctttag tcttacccag 180
tgaatcattc tgttccatgt ctttggacaa ccatgacctt ggacaatcat gaaatatgca 240
tctcactgga tgcaaagaaa atcagatgga gcatgaatgg tactgtaccg gttcatctgg 300
actgccccag aaaaataact tcaagcaaac atcctatcaa caacaaggtt gttctgcata 360
ccaagctgag cacagaagat gggaacactg gtggaggatg gaaaggctcg ctcaatcaag 420
aaaattctga gactattaat aaataagact gtagtgtaga tactg 465

<210> 401
<211> 419
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Art ificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(419)
<223> 3' terminal sequence. ests (EST W73386)
gene.

<400> 401
gaaggtcatt cttgcgatgg gtttattgca ggagatgatg gaccaaatgg ctctgacaca 60
tgcacacgct cctgggcacg cctgctgcgn gtncgcttcc catga ccccc agggccctct 120
atgcctcccc cccagggcac cctgcccact tgccccccact tcatgtacca ccaagccctt 180
tccttttctg ggcaccactc ctgagcagcg tgaccagcgg cctccaagtg catgtggctc 240
agaacataaa agcatcttca acattcgtca ttgagccaaa cgaaacacag tgtttggctc 300
aagagccggc gacactngca tcc ctatcca cacgtggaac ctgcccttgg gcttngttga 360
ccggaggatn ggccgctctt ccttgtcatc cagcanccgg agcatgtatg tgcccaga 419

<210> 402
<211> 568
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(568)
<223> 3' terminal sequence. granzyme a (granzyme

1, cytotoxic t-lymphocyte-associated serine esterase 3) (GZMA) gene.

<400> 402
tcatgcaaat tgattttatt tgtgaaaaga ttaagaagcc acagtanatg aaaggaaacg 60
gttatttaaa ctgctccctt gatagt cata attatccagt tgaggtgttt ctttgagaga 120
agaatataga caccaggccc acgagggtct ccgcatttat tttcaaggcc aaaggaagtg 180
acccctcgga aaacaccctc gcacaacaaa gggcttccag aatctccatt gcacgagtct 240
cttccacctc ggaggcttcc agcacaaacc atattcattc caatcacagg gttaaaatta 300
tagtgatttc gatcattgca gactttnctg tctatgatgg gtgatattga cttgcactca 360
gagtatcggg acccaagatg cactattggt gagtcctgcc ccaccctggc aacttggcac 420
atggttcctg gntttcacat caatcccccc ttttagggag atgaaggata gtcacatatn 480
tggtnatttt ggctttttcc ggtcagctgt aaagttttaa ggtccc ctnc gcgtttggtg 540
gggcctagcc tggnagggga aancctttt 568

<210> 403
<211> 878
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(878)
<223> granzyme a (granzyme 1, cytotoxic t-lymphocyte-associated serine esterase 3) (GZMA) gene.

<400> 403
cagattttca ggttgattga tgtgggacag cagccacaat gaggaactcc tatagatttc 60
tggcatcctc tctctcagtt gtcgtttctc tcctgctaat tcctgaagat gtctgtgaaa 120
aaattattgg aggaaatgaa gtaactcctc attcaagacc ctacatggtc ctacttagtc 180
ttgacagaaa aaccatctgt gctggggctt tgattgcaaa agactgggtg ttgactgcag 240
ctcactgtaa cttgaacaaa aggtcccagg tcattcttgg ggctcactca ataaccaggg 300
aagagccaac aaaacagata atgcttgtta agaaagagtt tcc ctatcca tgctatgacc 360
cagccacacg cgaaggtgac cttaaacttt tacagctgac ggaaaaagca aaaattaaca 420
aatatgtgac tatccttcat ctacctaaaa aggggggatga tgtgaaacca ggaaccatgt 480
gccaagttgc agggtggggg aggactcaca atagtgcatc ttggtccgat actctgagag 540
aagtcaatat caccatcata g acagaaaag tctgcaatga tcgaaatcac tataatttta 600
accctgtgat tggaatgaat atggtttgtg ctggaagcct ccgaggtgga agagactcgt 660
gcaatggaga ttctggaagc cctttgttgt gcgagggtgt tttccgaggg gtcacttcct 720
ttggccttga aaataaatgc ggagaccctc gtgggcctgg tgtctatatt cttctctcaa 780
agaaacacct caactggata attatgacta tcaagggagc agtttaaata accgtttcct 840
ttcatttact gtggcttctt aatcttttca caaataaa 878

<210> 404
<211> 191
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(191)
<223> 3' terminal sequence. v-fos fbj murine

osteosarcoma viral oncogene homolog (FOS) gene.

<400> 404
gcagtgaccg tgctcctacc cagctctgct tcacagcgcc cacctgtctc cgcccctcgg 60
cccctcgccc ggctttgcta accgccacga t gatgttctc gggcttcaac gcagactacg 120
aggcgtcatc ctcccgctgc agcagcgcgt ccccggccgg gataanctct ctttattaca 180
attaatcanc g 191

<210> 405
<211> 245
<212> DNA
<213> Artificial Sequence

<220>
<223> Descripti on of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(245)
<223> 5' terminal sequence. v -fos fbj murine
osteosarcoma viral oncogene homolog (FOS) gene.

<400> 405
ttttcaactt aaatgctttt attgacaatg tcttggaaca ataagcaaac aatgcttaaa 60
ttttttcattc aaattcactt tccacatgtc aaaagacctc aaggtagaaa aaaataaaat 120
aaaaatataa atatctgaga atccatctta ataaataaat taaaaacaca ataaaacgtt 180
ttcatggaaa actgttaatg tccngaacat tcagaccacc tcnacaatgn gtgntcngtn 240
anatt 245

<210> 406
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(489)
<223> 3' terminal sequence. interleukin enhancer
binding factor 1 (I LF1) gene.

<400> 406
gcgncgcgct caccgaaggg ngnangtaga cagcgggtca gaggccgcct agagccggag 60
gacaccccaa atacaaacat accacggaga gacctgggat ctgagtttca aaagggcctg 120
tgataaaaga ctgaatcttt ttccaaatga agtagaaatg gttctgtcgt tttaaacata 180
cacaatactt aggagacttg tt ttactcag agtggaaaat tttgccaggg acaaagtcaa 240
cacaaagaaa caaacaacaa aaaatagcca gaaagagaac agttaagtgc agctcggtga 300
gtcccggcag ttccttcccg gcactggctc gtccctgggt tctcaaggtt ccatgcggcc 360
acagcgtccg tccacctgtc cacgcgagcc acatgctgaa atgggaggtg ggataaaatt 420
catcaggcag ctgctgtaac acggaaatgt gcagatgcca gagtagcttc gtctgaactt 480
gaacaagac 489

<210> 407
<211> 247
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(247)
<223> 5' terminal sequence. interleukin enhancer
binding factor 1 (ILF1) gene.

<400> 407
tgttttcagc ctatggaatg atttcctttt gtctgtcttg ttcaagttca gacgaagcta 60
ctctggcatc tgcacatttc cgtgttacag cagctgcctg atgaa tttta tccacctcca 120
tttcagcatg tggctcgcgt ggacaggtgg acggacgctg tggccgcatg gaaccttgag 180
aacccaggga cgagccagtg ccgggaagga actgccggga ctcaccganc tgcncttaac 240
tgttctc 247

<210> 408
<211> 3059
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(3059)
<223> interleukin enhancer binding factor 1 (ILF1)
gene.

<400> 408
gccccccccc cacgcctcct cccctcctcc cgcccgcgcg tgctcccgcc cctcgccgcc 60
gctcgctcgc tcgccggccg gcctccgctc ggcccctcc ctcagctccg gtgcgcggcg 120
gccgacgacc cgcggcctgg gcctcggcgc gccaccggcg cccgcgcgga gcggcccggg 180
ggccctcacg caggcccatg gcggcggcgc ggcgcgctct cgggccgggc accacgcggg 240
cgcgggccg ggggcgcgg g gccgggggcg ggtcccgccg ggcgctgggc cgtgggccgc 300
ctggagggcc gcgagttcga gtatctgatg aagaagcgct cggtgaccat cggccgcaac 360
tcgtcgcagg gctcggtgga cgtgagcatg ggccactcga gcttcatctc ccggcgccac 420
ctcgagatct tcacgccccc gggcggcgcg gccatggcgg ggccgctccg gagctgccgc 480
ccgcgcagcc caggcccgac gccggcggcg acttctacct gcgctgcttg ggcaagaacg 540
gggtattcgt ggacggcgtg ttccagaggc gcggggcgcc gccgctgcag ctgccgcgcg 600
tgtgcacatt caggttcccg agcacaaaca tcaagataac gttcactgcc ctgtccagcg 660
agaagagaga gaagcaggag gcgtctgagt ctccagtga a ggccgtacag ccacacatct 720
cgcccctgac catcaacatt ccagacacca tggcccacct catcagccct ctgccctccc 780
ccacgggaac catcagcgct gcaaactcct gcccctccag cccccgggga gcggggtctt 840
cagggtacaa ggtgggccga gtgatgccat ctgacctcaa tttaatggct gacaactcac 900
agcctgaaaa tgaaaag gaa gcttcaggtg gagacagccc gaaggatgat tcaaagccgc 960
cttactccta cgcgcagctg atagttcagg cgattacgat ggctcccgac aaacagctca 1020
ccctgaacgg gatttataca cacatcacta aaaattatcc ctactacagg actgcggaca 1080
agggctggca gaattcaatt cgccacaatc tctctctgaa tcgttatttc atcaaag tgc 1140
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gcaaattaat agaacaggct tttaggaaac gacggcctag gggcgtgccc tgctttagaa 1260
cccctctggg accgctctct tctaggagtg ccccagcctc tcccaatcac gcgggagtgc 1320
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agcggcagct accacaggcc atcaagcctg tcacctacac tgtggccacc ccagtgacca 1560
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ctgtggtcac cccggcagcc gtgctggccc ctcctaaggc agaggcccag gagaatggag 1740
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gcactgccag ccggatcatt cagacggcac agaccacccc ggtccagacg gtgaccatag 1860
tacaacaggc acctctaggt caacaccagc taccaataaa aactgtaaca caaaacggca 1920
ctcacgtggc atcagtcccc actgcggtcc acggccaggt gaacaatgcc gcggcgagtc 1980
ctttgcacat gttggcaaca cacgcatccg catcggcctc cctgcccaca aagcgccaca 2040
acggtgacca gccggagcag ccggagctga agcggatcaa gacagaagac ggcgagggca 2100
tcgtcattgc cctgagcgtg gacacgccac cggcagccgt aagggaaaag ggtgtccaga 2160
actagcgacc gggagagctt ttctttaacg atatcaactc tgtggtgcca aaaggagac g 2220
cggcctcccg ccagcactcg ggggtgcagg gccctgtggt tggacttcac ctctcagcac 2280
tgaaaaccca aaacccagct ggccttaaca ctccttaaag acagaagtca cacttgaaca 2340
aaacccacac acaacaaaac ctgatttggg agacggtgtc tccactgagc acctgctggg 2400
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ccatttctac tgagactttc agaatcacac aggccctttc cgtggatttc atttggggca 2700
aagaaacaac atagttttgt ttttgttttc agcctatgga atgatttcct tttgtctgtc 2760
ttgttcaagt tcagacgaag ctactctggc atctgcacat ttccgtgtta cagcagctgc 2820
ctgatgaatt ttatccacct ccatttcagc atgtggctcg cgtggac agg tggacggacg 2880
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ggactcaccg agctgcactt aactgttctc tttctggcta ttttttgttg tttgtttctt 3000
tgtgttgact ttgtccctgg caaaattttc cactctgagt aaaacaagtc tcggaattc 3059

<210> 409
<211> 201
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(201)
<223> 3' terminal sequence. rho gdp dissociation
inhibitor (gdi) alpha (ARHGDIA) gene.

<400> 409
ttttttttt tccttc aggg gcatttattt cccggtcaga aaagaagcag ggacaggcgc 60
ctctgcctga gcctggcaga cacaacacga agaccgggga tggggcgggg gaggcacagg 120
agacggctct cagcaatgtg tgcacttggt cccttgtttg ttcctggctg ggtcagggaa 180
ggcctgccgn gggtggtggc a 201

<210> 410
<211> 297
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(297)
<223> 5' terminal sequence. rho gdp dissociation
inhibitor (gdi) alpha (ARHGDIA) gene.

<400> 410

ggcctctgct gccctttctg tgcccccag gttctatctc cccgtcacac ccgaggcctg 60
gcttcaggag ggagcggana gccattctcc aggccccgtg gttgcccctg gacgtgtgcg 120
tctgctgctc cggggtggan ctggggtgtg ggatgcacgg cctcgtgggg gccgggccgt 180
cctccagccc cgctgctccc tggccagccc cc ttgtcgct gtcggtcccg tctaaccatg 240
atgccttaac atgtggagtg tacctgtggg gcctcactaa gcctctaant cactgtg 297

<210> 411
<211> 1819
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1819)
<223> rho gdp dissociation inhibitor (gdi) alpha
(ARHGDIA) gene.

<400> 411
cctgaaccgc gcggccgaac cctccggtgt cccgacccag gctaagcttg agcatggctg 60
agcaggagcc cacagccgag cagctggccc agattgcagc ggagaacgag gaggatgagc 120
actcggtcaa ctacaagccc ccggcccaga agagcatcca ggagatccag gagctggaca 180
aggacgacga gagcctgcga aagtacaagg aggccctgct gggccgcgtg gccgtttccg 240
cagaccccaa cgtccccaac gtcgtggtga ctggcctgac cctggtgtgc agctcggccc 300
cgggcccccc ggagctggac ctgacgggcg acctggagag cttcaagaag cagtcgtttg 36 0
tgctgaagga gggtgtggag taccggataa aaatctcttt ccgggttaac cgagagatag 420
tgtccggcat gaagtacatc cagcatacgt acaggaaagg cgtcaagatt gacaagactg 480
actacatggt aggcagctat gggccccggg ccgaggagta cgagttcctg acccccgtgg 540
aggaggcacc caagggtatg ctggcccggg gcagctacag catcaagtcc cgcttcacag 600
acgacgacaa gaccgaccac ctgtcctggg agtggaatct caccatcaag aaggactgga 660
aggactgagc ccagccagag gcgggcaggg cagagtgatg gacggaagac ggacaggcgg 720
atgtgtcccc cccagccccc cccctcccca taccaaggtg ctgagcaggc cctccgtgcc 780
cctccaccct ggtccgcct c cctggcctgg ctcaaccgag tgcctccgac ccccctcctc 840
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ccctcgatgg acaggcctga cccaccccac ctggggccag ccaggagccc cgcctgggcc 1560
atcagtattt attgcctccg tccgtgccgt ccctgggcca ctggctggcg cctcttcccc 1620
cagcctctca gtgccaccac ccccggcagc cttccctgac ccagccagg a caaacaaggg 1680
accaagtgca cacattgctg agagccgtct cctataggtc ccccgcccca tccccggtgt 1740
tggtgttgtg tctgccaggc tcaggcagag gcgcctgtcc ctgcttcttt tctgaccggg 1800
aaataaatgc ccctgaagg 1819

<210> 412
<211> 306
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(306)
<223> 3' terminal sequence. complement component
4a (C4A) gene.

<400> 412
gctgccaaaa gcctttaata tgccctggtc ccaggctgt g ttcatgaaag cggacacagc 60
agtgcttcca gcttcatggt tcccaggttc aggttcctcc cagcggaggt gggagggcag 120
ccctcacacc tggcacccct gagtgcatac tcctggagga agtcgttgag ctgggcacag 180
gctgcccgct ggcggttgcn tccggcacag gcgttcagag ggcatctcct cgatccagct 240
attcgagtcc agcaagta ct ngggggggnc cctcccaggg gcataantng gnccntccag 300
anccat 306

<210> 413
<211> 5417
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(5417)
<223> complement component 4a (C4A) gene.

<400> 413
agaaggtagc agacagacag acggatctaa cctctcttgg atcctccagc catgaggctg 60
ctctgggggc tgatctgggc atccagcttc ttcaccttat ctctgcagaa gcccaggttg 120
ctcttgttct ctccttctgt ggttcatctg ggg gtccccc tatcggtggg ggtgcagctc 180
caggatgtgc cccgaggaca ggtagtgaaa ggatcagtgt tcctgagaaa cccatctcgt 240
aataatgtcc cctgctcccc aaaggtggac ttcaccctta gctcagaaag agacttcgca 300
ctcctcagtc tccaggtgcc cttgaaagat gcgaagagct gtggcctcca tcaactcctc 360
agaggccctg aggtccagct ggtggcccat tcgccatggc taaaggactc tctgtccaga 420
acgacaaaca tccagggtat caacctgctc ttctcctctc gccgggggca cctcttttg 480
cagacggacc agcccattta caaccctggc cagcgggttc ggtaccgggt ctttgctctg 540
gatcagaaga tgcgcccgag cactgacacc atcacagtca tggtggagaa ctc tcacggc 600
ctccgcgtgc ggaagaagga ggtgtacatg ccctcgtcca tcttccagga tgactttgtg 660
atcccagaca tctcagagcc agggacctgg aagatctcag cccgattctc agatggcctg 720
gaatccaaca gcagcaccca gtttgaggtg aagaaatatg tccttcccaa ctttgaggtg 780
aagatcaccc ctggaaagcc ctacatcctg a cggtgccag gccatcttga tgaaatgcag 840
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ttcctgctgc aggccttggt ccgtgagatg tcaggctccc cagcttct gg cattcctgtc 1260
aaagtttctg ccacggtgtc ttctcctggg tctgttcctg aagcccagga cattcagcaa 1320
aacacagacg ggagcggcca agtcagcatt ccaataatta tccctcagac catctcagag 1380
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cgtgttgggg acactctgaa cctgaacttg cgagccgtgg gcagtggggc caccttttct 1560
cattactact acatgatcct atcccgaggg cagatcgtgt tcatgaatcg agagcccaag 1620
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ttggacacag ctctgtatgc tgcaggcagc aagtcc caca agcccctcaa catgggcaag 1920
gtctttgaag ctatgaacag ctatgacctc ggctgtggtc ctgggggtgg ggacagtgcc 1980
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caggcttcgg cctggctcac ccgtcagggc agcttccaag ggggattccg cagtacccaa 3960
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gacgtcaccc tcctgagtgg attccacgcc ctgcgtgctg acctggagaa gctgacctcc 4560
ctctctgacc gttacgtgag tcactttgag accgaggggc cccacgtcct gctgtatttt 4620
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gggctggtgc agccggccag cgcaaccc tg tacgactact acaaccccga gcgcagatgt 4740
tctgtgtttt acggggcacc aagtaagagc agactcttgg ccaccttgtg ttctgctgaa 4800
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atcacccaag tcctgcactt caccaaggat gtcaaggccg ctgctaatca gatgcgcaac 5040
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ggtctggatg gggccaccta tgacctcgag ggacacccca a gtacctgct ggactcgaat 5160
agctggatcg aggagatgcc ctctgaacgc ctgtgccgga gcacccgcca gcgggcagcc 5220
tgtgcccagc tcaacgactt cctccaggag tatggcactc aggggtgcca ggtgtgaggg 5280
ctgccctccc acctccgctg ggaggaacct gaacctggga accatgaagc tggaagcact 5340
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aaagtgtcag tgttggc 5417

<210> 414
<211> 408
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(408)
<223> 3' terminal sequence. cd3g antigen, gamma
polypeptide (tit3 complex) (CD3G) gene.

<400> 414
ttacaatttt ccccaatagg tggcgcttct gaaacacagt atttgttttt atttttattt 60
tatttgagaa acccccaaat ttgctctgat ggcctttctt ctccatttgt catctctggg 120
aaccttgagt ctagatttag ggctgaaagt ctctctgcta ggagctttcc aaaatgcatt 180
gctttgattc tgggaactga ataggaggag aacacctgga ctactctgag tcctgagttc 240
aattcctcct caactggttt ccttgaaggt ggctgtactg gtcatcttct cgatccttga 300
ggggctggta gagctggtca ttgggcaac a gagtctgctt gtctgnaagc tctcgactgg 360
gcgaactcca tcctgtccag caatgaagta gaccccaaag gcaaggac 408

<210> 415
<211> 457
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(457)
<223> 5' terminal sequence. cd3g antigen, gamma
polypeptide (tit3 complex) (CD3G) gene.

<400> 415
aaccacttgg ttaaggtgta tgactatcaa gaagatggtt cggtacttct gacttgtgat 60
gcagaagcca aaaatatcac atggtttaaa gatgggaaga tgatcggctt cctaactgaa 120
gataaaaaaa aatggaatct gggaagtaat gccaaggacc ctcgagggat gtatcagtgt 180
aaaggatcac agaacaagtc aaaaccactc caagtgtatt acagaatgtg tcaganctgc 240
attgaactaa atgcagccac catatctggc tttctctttg ctgaaatcgt cagcattttc 300
gtccttgcct ttggggtcta cttcattgct ggacaggatg gag ttcgcca gtcgagagct 360
tcagacaagc agactctgtt gcccaatgac cagctctacc agcccctcaa ggatccgagg 420
aagatgacca gtacagccac cttcaagggn aaccagt 457

<210> 416
<211> 822
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Art ificial Sequence:primer

<220>
<221> misc_feature

<222> (1)..(822)
<223> cd3g antigen, gamma polypeptide (tit3 complex) (CD3G) gene.

<400> 416
gggctgctcc acgcttttgc cggagacaga gactgacatg gaacagggga agggcctggc 60
tgtcctcatc ctggctatca ttcttcttca ag gtactttg gcccagtcaa tcaaaggaaa 120
ccacttggtt aaggtgtatg actatcaaga agatggttcg gtacttctga cttgtgatgc 180
agaagccaaa aatatcacat ggtttaaaga tgggaagatg atcggcttcc taactgaaga 240
taaaaaaaaa tggaatctgg gaagtaatgc caaggaccct cgagggatgt atcagtgtaa 300
aggatcacag aacaagtcaa aaccactcca agtgtattac agaatgtgtc agaactgcat 360
tgaactaaat gcagccacca tatctggctt tctctttgct gaaatcgtca gcattttcgt 420
ccttgctgtt ggggtctact tcattgctgg acaggatgga gttcgccagt cgagagcttc 480
agacaagcag actctgttgc ccaatgacca gctctaccag cccctcaagg at cgagaaga 540
tgaccagtac agccaccttc aaggaaacca gttgaggagg aattgaactc aggactcaga 600
gtagtccagg tgttctcctc ctattcagtt cccagaatca aagcaatgca ttttggaaag 660
ctcctagcag agagactttc agccctaaat ctagactcaa ggttcccaga gatgacaaat 720
ggagaagaaa ggccatcaga gcaaatttgg gggtttctca aataaaataa aaataaaaac 780
aaatactgtg tttcagaagc gccacctatt ggggaaaatt gt 822

<210> 417
<211> 439
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(439)
<223> 3' terminal sequence. v-rel avian reticuloendotheliosis viral oncogene homolog b (nuclear factor of kappa light polypeptide gene enhancer in b-cells 3) (RELB) gene.

<400> 417
acatctttat tgggaagact ctgaacaacc aacctacccc c caccttcaa gtctggggaa 60
ggnagggcag gantctgccc cctcctccca tatgtacaat cttttccgaa tcctactgga 120
gaaggtgccc ccacatgtgg aacagaggca gctgtaacaa gctagtgcac gggagccatg 180
tccctttcc tctccggact cagtttcctc atctgtaaaa tgggctcaag gggaaacccg 240
tgcaacgagg cttctcgcca aggctganta tgtccacttc agaagcatga ggaagggcca 300
aggggatggg ggtgctagac atcctgggtt gggattgcac ggctcctcca cctccctccc 360
cacccagtgc ccctcctctg gcatcgcggg gctacgtggc ttcaggcccg gggataggag 420
gccgccccca aaggccgct 439

<210> 418
<211> 234
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(234)
<223> 5' terminal sequence. v-rel avian reticuloendotheliosis viral oncogene homolog b

(nuclear factor of kappa light polypeptide gene enhancer in b-cells 3) (RELB) gene.

<400> 418
acgggggatg cccaacgtcc ttggggagct gaacagtctg gacccccatg gcatcgagag 60
caaacggcgg aagaaaaagc cggccatcct ggaccacttc ctgcccaacc acggctcagg 120
cccgttcctc ccgccgtcag ccctgctgcc agaccctgac ttcttctctg ggcaccgtgt 180
tccctgcccg gcngggaggc cctgggggggc ctgnacctcc tgggacgatg ggtt 234

<210> 419
<211> 2314
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(2314)
<223> v-rel avian reticuloendotheliosis viral oncogene homolog b (nuclear factor of kappa light polypeptide gene enhancer in b-cells 3) (RELB) gene.

<400> 419
ggaattcccg cccggcccgg ccccgcgccc cgcagc cccg ggcgccgcgc gtcctgcccg 60
gcctgcggcc cagcccttgc gccgctcgtc cgacccgcga tcgtccacca gaccgtgcct 120
cccggccgcc cgggcccccgc gtgcatgctt cggtctgggc cagcctctgg gccgtccgtc 180
cccactggcc gggccatgcc gagtcgccgc gtcgccagac cgccggctgc gccggagctg 240
ggggccttag ggtcc cccga cctctcctca ctctcgctcg ccgtttccag gagcacagat 300
gaattggaga tcatcgacga gtacatcaag gagaacggct tcggcctgga cgggggacag 360
ccgggcccgg gcgaggggct gccacgcctg gtgtctcgcg gggctgcgtc cctgagcacg 420
gtcaccctgg gccctgtggc gccccccagcc acgccgccgc cttggggctg ccccctg ggc 480
cgactagtgt ccccagcgcc gggcccgggc ccgcagccgc acctggtcat cacggagcag 540
cccaagcagc gcggcatgcc gttccgctac gagtgcgagg gccgctcggc cggcagcatc 600
cttggggaga gcagcaccga ggccagcaag acgctgcccg ccatcgagct ccgggattgt 660
ggagggctgc gggaggtgga ggtgactgcc tgcct ggtgt ggaaggactg gcctcaccga 720
gtccaccccc acagcctcgt ggggaaagac tgcaccgacg gcatctgcag ggtgcggctc 780
cggcctcacg tcagcccccg gcacagtttt aacaacctgg gcatccagtg tgtgaggaag 840
aaggagattg aggctgccat tgagcggaag attcaactgg gcattgaccc ctacaacgct 900
gggtccctga aga accatca ggaagtagac atgaatgtgg tgaggatctg cttccaggcc 960
tcatatcggg accagcaggg acagatgcgc cggatggatc ctgtgctttc cgagcccgtc 1020
tatgacaaga aatccacaaa cacatcagag ctgcggattt gccgaattaa caaggaaagc 1080
gggccgtgca ccggtggcga ggagctctac ttgctctgcg acaaggtgca gaa agaggac 1140
atatcagtgg tgttcagcag ggcctcctgg gaaggtcggg ctgacttctc ccaggccgac 1200
gtgcaccgcc agattgccat tgtgttcaag acgccgccct acgaggacct ggagattgtc 1260
gagcccgtga cagtcaacgt cttcctgcag cggctcaccg atggggtctg cagcgagcca 1320
ttgcctttca cgtacctgcc tcgcgacc at gacagctacg gcgtggacaa gaaggcgaaa 1380
cgggggatgc ccgacgtcct tggggagctg aacagctctg acccccatgg catcgagagc 1440
aaacggcgga agaaaaagcc ggccatcctg gaccacttcc tgcccaacca cggctcaggc 1500
ccgttcctcc cgccgtcagc cctgctgcca gaccctgact tcttctctgg caccgtgtcc 1560
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agcgctgttg tgtgcagcgg aggtgccggg gccgtggttg gggagacccc cggccctgaa 1740
ccactgacac tggactcgta ccaggccccg ggccccgggg a tggaggcac cgccagcctt 1800
gtgggcagca acatgttccc caatcattac cgcgaggcgg cctttggggg cggcctccta 1860
tccccggggc ctgaagccac gtagccccgc gatgccagag gaggggcact gggtggggag 1920
ggaggtggag gagccgtgca atcccaacca ggatgtctag caccccatc cccttggccc 1980
ttcctcatgc ttctga agtg gacatattca gccttggcga gaagctccgt tgcacgggtt 2040

tccccttgag cccatttttac agatgaggaa actgagtccg gagaggaaaa gggacatggc 2100
tcccgtgcac tagcttgtta cagctgcctc tgtccccaca tgtgggggca ccttctccag 2160
taggattcgg aaaagattgt acatatggga ggaggggggca gattcctggc cctcc ctccc 2220
cagacttgac ttgaaggtgg ggggtaggtt ggttgttcag agtcttccca ataaagatga 2280
gtttttgagc ctcaaaaaaa aaaaaaggaa ttcc 2314

<210> 420
<211> 214
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequen ce:primer

<220>
<221> misc_feature
<222> (1)..(214)
<223> 3' terminal sequence. estrogen receptor 1
(ESR1) gene.

<400> 420
tttagttgta attctttatt tgaacatcaa ataggttgag aaaattgttt acaggtgctc 60
gagcatcccg ctggattctt tttcaaagtg caaaagaggt ttacaagtgt gtttcattaa 120
acaaagcaaa gctgcgacaa aaccgagtca catcagtaat agtatgcatc ggcaaaaggg 180
catattaatc catcaaacac aatttggcat ttga 214

<210> 421
<211> 520
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Seq uence:primer

<220>
<221> misc_feature
<222> (1)..(520)
<223> 5' terminal sequence. estrogen receptor 1
(ESR1) gene.

<400> 421
tgaaaactta ctctcaactg gagcaaatga actttggtcc caaatatcca tcttttcagt 60
agcgttaatt atgctctgtt tccaactgca tttcctttcc aattgaa tta aagtgtggcc 120
tcgtttttag tcatttaaaa ttgttttcta agtaattgct gcctctatta tggcacttca 180
attttgcact gtcttttgag attcaagaaa aatttctatt ctttttttttg catccaattg 240
tgcctgaact tttaaaatat gtaaatgctg ccatgttcca aacccatcgt cagtgtgtgt 300
gtttagagct gtcaccctag aaaca acata ttgtcccatg agcaggtgcc tgagacacag 360
acccctttgc attcacagag aggtcattgg ttatagagac ttgaattaat aagtgacatt 420
atgccagttt ctgttctctc acaggtgata aacaatgctt tttgtgcact acatactctt 480
cagtgtagag ctcttgtttt atgggaaaag gctcaaatgc 520

<210> 422
<211> 6450
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(6450)
<223> estrogen receptor 1 (ESR1) gene.

<400> 422
gagttgtgcc tggagtgatg tttaagccaa tgtcagggca ag gcaacagt ccctggccgt 60
cctccagcac ctttgtaatg catatgagct cgggagacca gtacttaaag ttggaggccc 120
gggagcccag gagctggcgg agggcgttcg tcctgggagc tgcacttgct ccgtcgggtc 180
gccggcttca ccggaccgca ggctcccggg gcagggccgg ggccagagct cgcgtgtcgg 240
cgggacatgc gctgcgtcgc c tctaacctc gggctgtgct ctttttccag gtggcccgcc 300
ggtttctgag ccttctgccc tgcggggaca cggtctgcac cctgcccgcg gccacggacc 360
atgaccatga ccctccacac caaagcatct gggatggccc tactgcatca gatccaaggg 420
aacgagctgg agcccctgaa ccgtccgcag ctcaagatcc ccctggagcg gcccctgggc 480
gaggtgtacc tggacagcag caagcccgcc gtgtacaact accccgaggg cgccgcctac 540
gagttcaacg ccgcggccgc cgccaacgcg caggtctacg gtcagaccgg cctcccctac 600
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aacagcgtgt ctccgagccc gctgatgcta ctgcacccgc c gccgcagct gtcgcctttc 720
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gtgcgcgagg ccggcccgcc ggcattctac aggccaaatt cagataatcg acgccagggt 840
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caccagcggc tggcccagct cctcctcatc ctctcccaca tcaggcacat gagtaacaaa 1920
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aagcgtgagg attcccgtag ctcttcacag ctgaac tcag tctatgggtt ggggctcaga 2460
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ttgtgcagga ttgttgtggc tactagagaa caagagggaa agtagggcag aaactggata 3240

cagttctgag cacagccaga cttgctcagg tggccctgca caggctgcag ctacctagga 330 0
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tggtcccaaa tatccatctt ttcagtagcg ttaattatgc tctgtttcca actgcatttc 5820
ctttccaatt gaattaaagt gtggcctcgt ttttagtcat ttaaaattgt tttctaagta 5880
attgctgcct ctatta tggc acttcaattt tgcactgtct tttgagattc aagaaaaatt 5940
tctattcatt tttttgcatc caattgtgcc tgaactttta aaatatgtaa atgctgccat 6000
gttccaaacc catcgtcagt gtgtgtgttt agagctgtgc accctagaaa caacatactt 6060
gtcccatgag caggtgcctg agacacagac ccctttgcat tcacagagag gtcat tggtt 6120
atagagactt gaattaataa gtgacattat gccagtttct gttctctcac aggtgataaa 6180
caatgctttt tgtgcactac atactcttca gtgtagagct cttgttttat gggaaaaggc 6240
tcaaatgcca aattgtgttt gatggattaa tatgcccttt tgccgatgca tactattact 6300
gatgtgactc ggttttgtcg cagctttgct ttgtttaatg aaacacactt gtaaacctct 6360
tttgcacttt gaaaaagaat ccagcgggat gctcgagcac ctgtaaacaa ttttctcaac 6420
ctatttgatg ttcaaataaa gaattaaact 6450

<210> 423
<211> 580
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(580)
<223> 3' terminal sequence. pre -b-cell leukemia
transcription factor 1 (PBX1) gene.

<400> 423
ttaaacgtac aaacactttt attattttct ttgtaatttt tttcctcttt aaattcctct 60
aattgttgaa aatatccttc agtgatatgc gagagggcgg gcacccggga gtctaggaca 120
gaggcacagg ggcagggaag atgacgaaaa ccaggctgac agctggaggc agggaagggt 180
ggcttctacc cagaaaaaaa aggggagaga gtataaagaa gtgtccagat tggctgaaat 240
agcatcccaa agaagagaag agaaggagac tcttattgtg tttgc tgatt gcttcgacct 300
ccagtctgac cgcttcaggn ttgggagaga aaccctccct tcctgccccc gccccaactg 360
ggcgacaggg tcagccggga tgcgattgct gggagatcag ttggaggtat cagagtgaac 420
actgccaggg ccttctgtag gggaggtcac tgatgaaggg gtagtagcat cctgccaacc 480
tccattagca ctgatgccct gcg gactgta catctgactg gctgcgagtc catcactgta 540
tcctcctgtc tggctgataa catggcgaag ggtatccacc 580

<210> 424
<211> 503
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(503)
<223> 5' terminal sequence. pre -b-cell leukemia
transcription factor 1 (PBX1) gene.

<400> 424
gccaaagagg agttagccaa gaagtgtggc accacagtct cccaggtatc acaactggtt 60
tggaaataag cgaatccggt acaagaagaa cataggtaaa tttcaagagg aagccaatat 120
ttatgctgcc aaaacagctg tcactgctac caatgtgtca gcccatggaa gccaagctaa 180
ctcgccctca actcccaact cggctggtgg ataccccttcg ccatgttatc agccagacag 240
gaggatacag tgatggactc gcagccagtc agatgtacag tccgcaggca tcagtgctaa 300
tggaggttgg caggatgcta ctacccccttc atcagtgacc t cccctacag aaggccctgg 360
cagtgttcac tctgatacct ccaactgatc tcccagcaat cgcatcccgg ctgaccctgt 420
gccccagttg ggcaggggca ggagggaggg tttctctccc aacgctgaag cggtcagact 480
ggaggtcaaa cgattaggca aac 503

<210> 425
<211> 1819
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1819)
<223> pre-b-cell leukemia transcription factor 1
(PBX1) gene.

<400> 425
cttccctgtt tatcctgaaa aggatttgaa g acaagcttg aaggataaaa agccttggtg 60
cttcccagga gccgagccga ggagcagaag aggaagagcc gggggctgcc gtagcctttg 120
gagatggacg agcagcccag gctgatgcat tcccatgctg gggtcgggat ggccggacac 180
cccggcctgt cccagcactt gcaggatggg gccggaggga ccgaggggga gggcgggagg 240
aagcaggaca ttggagacat tttacagcaa attatgacca tcacagacca gagtttggat 300
gaggcgcagg ccagaaaaca tgctttaaac tgccacagaa tgaagcctgc cttgtttaat 360
gtgttgtgtg aaatcaaaga aaaaacagtt ttgagtatcc gaggagccca ggaggaggaa 420
cccacagacc cccagctgat gcggctggac aacatgctgt tagcggaagg cg tggcgggg 480
cctgagaagg gcggagggtc ggcggcagcg gcggcagcgg cggcggcttc tggaggggca 540
ggttcagaca actcagtgga gcattcagat tacagagcca aactctcaca gatcagacaa 600
atctaccata cggagctgga gaaatacgag caggcctgca acgagttcac cacccacgtg 660
atgaatctcc tgcgagagca aagccggacc aggcccatct ccccaaagga gattgagcgg 720
atggtcagca tcatccaccg caagttcagc tccatccaga tgcagctcaa gcagagcacg 780
tgcgaggcgg tgatgatcct gcgttcccga tttctggatg cgcggcggaa gagacggaat 840
ttcaacaagc aagcgacaga aatcctgaat gaatatttct attcccatct cagcaaccct 900
taccccagtg aggaagccaa agaggagtta gccaagaagt gtggcatcac agtctcccag 960
gtatcaaact ggtttggaaa taagcgaatc cggtacaaga agaacatagg taaatttcaa 1020
gaggaagcca atatttatgc tgccaaaaca gctgtcactg ctaccaatgt gtcagcccat 1080
ggaagccaag ctaactcgcc ctcaactccc aactcggctg gttcttcca g ttcttttaac 1140
atgtcaaact ctggagattt gttcatgagc gtgcagtcac tcaatgggga ttcttaccaa 1200
ggggcccagg ttggagccaa cgtgcaatca caggtggata cccttcgcca tgttatcagc 1260
cagacaggag gatacagtga tggactcgca gccagtcaga tgtacagtcc gcagggcatc 1320
agtgctaatg gaggttggca gga tgctact acccccttcat cagtgacctc ccctacagaa 1380
ggccctggca gtgttcactc tgatacctcc aactgatctc ccagcaatcg catcccggct 1440
gaccctctgc cccagttggg gcaggggcag gagggagggt ttctctccca agctgaagcg 1500
gtcagactgg aggtcgaagc aatcagcaaa cacaataaga gtctccttct cttctcttct 15 60
ttgggatgct atttcagcca atctggacac ttctttatac tctcttccct ttttttttctg 1620
ggtagaagcc acccttccct gcctccagct gtcagcctgg ttttcgtcat cttccctgcc 1680
cctgtgcctc tgtcctagac ttcccggggt ccccgccctc tctcatatca ctgaaggata 1740
ttttcaacaa ttagaggaat ttaaagagga aaaaaat tac aaagaaaata ataaaagtgt 1800
ttgtacgttt tcaaaaaaa 1819

<210> 426
<211> 506
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(506)
<223> 3' terminal sequence. gli -kruppel family
member gli3 (greig cephalopolysyndactyly syndrome)
(GLI3) gene.

<400> 426
taaaaagagg gtggtttgag tgtaacaata ctgattcaaa actgaaatgg aagacagttt 60
ctccctagaa tactttaggg tttttcagag tccttttcca taaa aggaat ataattgaaa 120
cacatctcag ttaggtgaga tgagattgct aaaatacata cagaactaaa aaaacagcca 180
aaacaaagtc agtttaatct cttcaactcc taatgatttc cgttggttgc agtctttttt 240
tcctaaagcc tattgcataa ctgcaaggga attgctttct tccgctaggg aggtcagcaa 300
agaactcatg tccccgatag cc atgttggt ggtgctcatg gacagcgctg ggaatgggag 360
ggacgcccga gggctggtta aagccggaag aacctatgga aaaggtctca atgatacttg 420
ggctcagggc cccgacatca ggctcgagtg gtccccatct ctatgattgc atcgaagtca 480
atctggtacc ctcccaggcc aggctg 506

<210> 427
<211> 239
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(239)
<223> 5' terminal sequence. gli -kruppel family
member gli3 (greig cephalopolysyndactyly syndr ome)
(GLI3) gene.

<400> 427
ggcagaagga tcacttgagg ccaggcattc aagaccagcc tatgcaagat aatgagacct 60
tgtctctatt taaaaaacaa aaagcctggt gtggtggtgc atgcctgtag tctcagcctc 120
ctgagtagct gggactataa gcacgcacca ctatgtctgg ctaatttttg tatttttagt 180
agagacaggg tttcaccacg ttgcccaggg cagtcttgaa ctcctgaccc caagtgatc 239

<210> 428
<211> 5054
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(5054)
<223> gli-kruppel family member gl i3 (greig
cephalopolysyndactyly syndrome) (GLI3) gene.

<400> 428
cgatactacg tgggcatttt tggtcgaaga gagctgaagt aatgagaaga catcatggag 60
gcccagtccc acagctccac gaccactgaa aagaaaaaag ttgagaattc catagtgaag 120
tgctccactc gaacagatgt gagcgagaaa gccgttgcct ccagcaccac ttctaatgag 180
gatgaaagtc ctggacagac ttatcacaga gagagaagaa acgcaatcac tatgcagcca 240
cagaatgtcc aggggctcag caaagtcagt gaggaacctt caacatcgag tgacgagagg 300
gcctcattga tcaagaaaga gatccatggg tccctgccac acgtggcgga gccctctgtg 360
ccgtaccgcg ggacggtg tt tgccatggac cccaggaatg gttacatgga gccccactac 420
caccctcctc atcttttccc tgccttccat cctcctgtac caattgatgc cagacatcat 480
gagggccgtt accattacga tccatctccg attcctc

cat tgcatatgac ttccgcctta 540
tctagtagcc ctacgtatcc ggacctgccc ttcattagga tctccccaca ccggaacc cc 600
gctgctgctt ccgagtctcc cttcagccct ccacatccct acattaatcc ctacatggac 660
tatatccgct ccttgcacag cagcccatcg ctctccatga tctcagcaac ccgtgggctg 720
agccctacag atgcgcccca tgcaggagtc agcccagcag aatactatca tcagatggcc 780
ctgctaactg gccagcgcag cccctatgca gacatt attc cctcagctgc caccgccggc 840
acgggggcca tccacatgga atatcttcat gctatggata gcaccagatt ctccagcccc 900
aggctgtcag ccaggccgag ccgaaaacgt acactgtcca tatcaccact ctccgatcat 960
agctttgacc ttcagaccat gataaggacg tctcccaact ccttggtcac gattctcaat 1020
aattcccgta gca gctcttc agcaagtggc tcctatggtc acttatctgc aagtgcaatc 1080
agccctgcct tgagcttcac ctactcttcc gcgcccgtct ctctccacat gcatcagcag 1140
atcctaagcc gacaacagag cttaggttca gcctttggac acagccctcc actcatccac 1200
cctgccccaa cttttccaac acagaggcct attccaggga tccctacggt tc tgaacccc 1260

gtccaggtca gctccggccc ttctgagtcc tcacagaaca agcccacgag tgagtctgca 1320
gtgagcagca ctggtgaccc gatgcacaac aagaggtcca agatcaaacc cgatgaagac 1380
ctccccagcc caggggctcg ggggcagcag gaacagcccg aaggaacaac ccttgtcaag 1440
gaggaagggg acaaagatga aagcaaa cag gagcctgaag tcatctatga gacaaactgc 1500
cactgggaag gctgcgcgag ggagttcgac acccaagagc agcttgtgca ccatataaat 1560
aacgaccata ttcatggaga gaagaaggag ttcgtgtgca ggtggctgga ctgctcaaga 1620
gagcagaaac ccttcaaagc ccagtatatg ttggtagtgc atatgagaag acacacgggc 1680
gagaagcctc acaaatgcac ttttgaaggt tgcacaaagg cctactcgag actagaaaac 1740
ttgaaaacac acttgagatc tcacactgga gagaaaccat acgtctgtga gcacgaaggt 1800
tgcaacaagg ctttctcaaa tgcctctgat cgcgccaaac accaaaacag aacgcattcc 1860
aatgagaaac catatgtgtg caaaatccca ggctgcacta agcgttacac agacccaagc 1920
tccctccgga aacatgtgaa gacagtgcat ggcccagagg ctcatgtcac caagaagcag 1980
cgaggggaca tccatcctcg gccgccaccc ccgagagatt ccggcagcca ttcacagtcc 2040
aggtcgcctg gccgaccgac tcagggagcc cttggtgagc agcaggacct cagcaacact 2100
acctcaaagc gggaa gaatg cctccaggtg aaaaccgtca aggcagagaa gccaatgaca 2160
tctcagccaa gccctggtgg tcagtcttca tgcagcagcc aacagtcccc catcagcaac 2220
tattccaaca gtgggctcga gcttcctctg accgatggag gtagtatagg agacctcagt 2280
gccatcgatg aaaccccaat catggactca accatttcca ctgcaaccac agcc cttgct 2340
ttgcaagcca ggagaaaccc ggcagggacc aaatggatgg agcacgtaaa actagaaagg 2400
ctaaaacaag tgaatggaat gtttccgcga ctgaacccca ttctaccccc taaagcccct 2460
gcggtctctc ctctcatagg aaatggcaca cagtccaaca acacctgcag cttgggtggg 2520
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atgctcaaca gaagggacag cagcgccagc accatcagct cggcctacct gagcagccgc 2640
cgctcctcag ggatctcgcc ctgcttctcc agccgccgct ccagcgaggc gtcacaggcc 2700
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cccgcccagc agtaccgcct caaggccaag tacgcggctg ccacaggagg gccgccgccg 2880
acgcccctgc ccaacatgga gaggatgagc ctgaagacgc gcctggcgct gctcggggat 2940
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ggagcccacg gctacgggcg gcgccacctg cagccgcacg atgcgctggg ccacggcgtg 3060
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cgcttcagca gcctcagcag ctgcaacccc ccggcgatgg ccacgtccgc ggagaagcgc 3180
agtctcgtgc ttcagaa tta cacgcggccc gagggcggcc agtcccgaaa cttccactcg 3240
tccccctgtc ctcccagcat caccgagaac gtcaccctgg agtccctgac catggacgct 3300
gatgccaacc tgaacgatga ggatttcctg ccggacgacg tggtgcagta tttaaattcc 3360
cagaaccaag cagggtacga gcagcacttc cccagcgccc tcccggacga cagcaa agtg 3420
ccccacgggc ccggtgactt tgacgcgccc gggctgccag acagccacgc tggccagcag 3480
ttccatgccc tcgagcagcc ctgccccgag ggcagcaaaa ccgacctgcc cattcagtgg 3540
aacgaagtca gctccggaag cgccgacctg tcctcctcca agctcaagtg tgggccgcgg 3600
cccgctgtgc cgcagactcg cgcctttggg ttctgcaacg gcatggtcgt ccacccgcag 3660
aacccccttga ggagcgggcc tgctgggggc tatcagaccc tcggggagaa cagcaacccc 3720
tacggtggcc cagagcactt gatgctccac aacagccccg gaagtggcac cagtggaaac 3780
gccttccatg aacagccctg taaggccccg cagtatggga actgtctcaa caggcagcca 3840
gtggcccctg gtgcactcga cggtgcctgt ggtgccggga ttcaagcctc aaagctgaag 3900
agcaccccca tgcaagggag cgggggccag ctgaatttcg gcctgccggt agcgccaaat 3960
gagtcagctg gcagcatggt gaatggcatg cagaaccagg acccagtggg acaggggtac 4020
ctggctcacc agctcctcgg cgacagcatg cagcacccgg gggc aggccg ccccggtcag 4080
cagatgcttg ggcagattag tgctacctca cacatcaaca tctaccaagg gccagagagc 4140
tgcctgccag gggctcacgg catgggcagc cagccgtcaa gcttggcagt tgtcaggggc 4200
taccagccat gtgccagctt tgggggcagc aggcgccagg ctatgccgag ggacagcctt 4260
gctctgcagt caggacagc t cagtgacaca agtcagacct gcagggtgaa tggtatcaag 4320
atggagatga aagggcagcc ccatccgctg tgctctaatc tgcagaatta ctctggtcag 4380
ttctatgacc aaaccgtggg cttcagtcag caagacacga aagctggttc attctctatt 4440
tcagacgcca gctgcctgct acaggggacc agcgccaaaa actctgagtt actttccc ca 4500
ggtgctaatc aggtgacaag cacagtggac agcctcgaca gccatgacct ggaaggggta 4560
cagattgact tcgatgccat catagacgat ggggaccact ccagcctgat gtcgggggcc 4620
ctgagcccaa gtatcattca gaacctttcc catagctcct cccgcctcac cacgcctcgg 4680
gcgtccctcc cattcccagc gctgtccatg ag caccacca acatggctat cggggacatg 4740
agttctttgc tgacctccct agcggaagaa agcaaattcc ttgcagttat gcaataggct 4800
ttaggaaaaa aagactgcaa ccaacggaaa tcaataggag ttgaagagat taaactgact 4860
ttgttttggc tgtttttta gttctgtatg tattttagca atctcatctc acctaactga 4920

gatgtgtttc aattatattc cttttatgga aaaggactct gaaaaaccct aaagtattct 4980
agggagaaac tgtcttccat ttcagttttg aatcagtatt gttacactca aaccaccctc 5040
tttttaaaaa aaaa 5054

<210> 429
<211> 271
<212> DNA
<213> Artificial S equence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(271)
<223> 3' terminal sequence. interleukin enhancer
binding factor 1 (ILF1) gene.

<400> 429
aggagacttg ttttactcag agtggaaaat tttgccaggg acaaagtc aa cacaaagaaa 60
caaacaacaa aaaatagcca gaaagagaac agttaagtgc agctcggtga gtcccggcag 120
ttccttcccg gcactggctc gtccctgggt tctcaaggtt ccatgcggcc acagcgtccg 180
tccacctgtc cacgcgagcc acatgctgaa atggaggtgg ataaaattca tcaggcagct 240
gctgtaacac ggaaatgtgc agatgcc aga g 271

<210> 430
<211> 193
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(193)
<223> 5' terminal sequence. Similar to Retinoblastoma -like protein 2,
sw|Q08999|RBL2_HUMAN.

<400> 430
TGTCTACATT TNCCCACATA AAAATGAAAC AATNNTTTCT CCTCGNGAAA AGATTTTATA 60
TTACTTNAGC NAAAGTCCTT CAAAGNGACT GAGCGNANNT AATAGTNTGA TACGCATAGG 120
NGNAACTCCT ACTNNAANGN GCGGNNTTCT TNTNGNNGAT GGCNGTGAAT NCACTGCAAA 180
NAGCATTTGC CCN 193

<210> 431
<211> 184
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(184)
<223> 3' terminal sequence. Homo sapiens CD2 antigen (p50).

<400> 431
AGTCAAAGCT TTTATTTCAC TTTNACTCAC AGGATGGGGG GCAAGTNTCC ACCAGGGCAC 60
ATAAGAAACT CCAGAGTCTC TTAAGCAGAT AGGCTGCTTG TAGNGAGACC CAGGNACACC 120
AATCACTTGA TTTATCGCAT CTACACATGA CCNGAGAGGG GACAAGAAAT CTCTAAGTTT 180
TCTG 184

<210> 432
<211> 242
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(242)
<223> 5' terminal sequence. Similar t o NM_022641 Homo sapiens chorionic somatomammotropin hormone 1 (placental lactogen) (CSH1

<400> 432
ATTCGGCACG ATGACTGGCC AGGGTATAAA AAGGGCCCAC AAGAGACCGG CTCTAGGATC 60
CCAAGGCCCA ACTCCCCGAA CCACTCAGGG TCCTGTGGCA GCTCACCTAG TGGCAATGGC 120
TCCAGGCTCC CGGAACGTCC CTGATCCTGG NTTTTGNCCT NCTCTNACTG CCCTGGNTTN 180
AANAAGCTNG TGCCNTCCAA ANCGTTCCGT TATCCAGGGT TTTTGACCAC GCTATGCTNC 240
AA 242

<210> 433
<211> 329
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(329)
<223> 5' terminal sequence. Homo sapiens plasminogen activator (PLAT)

<400> 433
AACAGTCACC GACAACATGC TGTGTGCTGG AGACACTCGG AGCGGCGGGC CCCAGGNAAA 60
CTTGCACGAC GCCTGCCAGG GNATTTCGGG AGGCCCCCTG GTGTGTCTGA ACGATGGCCG 120
CATGACTTTG GTGGGCATCA TCAGCTGGGG CCTGGGCTNT GGACAGAAGG ATGTCCCGGG 180
TGTGTACACC AAGGTTACCA ACTACCTAGA CTGGATTCGT GACAACATGC GACCGTGACC 240
AGGAACACCC GACTCCTCAA AAGNAAATGA GATCCCGNCT CTTCTTCTTC AG AAGACACT 300
GCAAAGGCGC AGTGCTTCTC TACAGACTT 329

<210> 434
<211> 247
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature

<222> (1)..(247)
<223> 3' terminal sequence. Homo sapiens plasminogen activator (PLAT)

<400> 434
AAATATATCT GAANNNNTTA AGTACAGTNT AAAACAGGGT TNTGGCAACA GAAAGTAAAA 60
ACTAACATGG NTTGCTATAA ATATGCTGAA GCCTAGTTGT TCAAATGATA CAATTCTCTC 120
ATGCTACTCT AAAGTTTNTA AAGNAAAAGG GTTTACACTT TACACACT GT ACACAAAGGG 180
GNTACCTTCT GNGNGCCNGG GAGTGGGGAA AGGGGANGGN GACTTGACGT CAAGGGTGCT 240
TTTGAGG 247

<210> 435
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Se quence:primer

<220>
<221> misc_feature
<222> (1)..(63)
<223> 5' terminal sequence. Homo sapiens aminoacylase 1 (ACY1).

<400> 435
CCGCCAGNAC CTGCGTATCC GCACTGTTCA GCCCAAGCCT GACTATGGAG CTGCTGTGGC 60
TTT 63

<210> 436
<211> 190
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(190)
<223> 3' terminal sequence. Homo sapiens aminoacylase 1 (ACY1).

<400> 436
GAAGAGGAGG NCCTTGGCAC TGGTNGGGAN GGAAGCCCCA GGGGAAAAGG TTNAGGAGTC 60
CCAGGGCTCA GCTGTCACTG GGCAGGGCAG GCACACTGGC AGGGCCAGGC AGCAGGCNNG 120
TATATATGNC CACCCCACGG AGGAACACAG CCTNATGCAG NCGTTNATCG TGGTNGTGCA 180
GNAGCACAGG 190

<210> 437
<211> 176
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(176)

<223> 3' terminal sequence. Homo sapiens E74 -like factor 1 (ets domain transcription factor) (ELF1)

<400> 437
CCCTTAGGCT GTTCTGGTGA TGAGGCTCCC GGTGAGTCTG CATATTTTTN TTGCACCTGC 60
TGTGTTTCCA TCACTTCAGG AATCCCATCT AATGTGACGG ACACATGGGT GACTGGGGCA 120
ACAACCATGT CATCTTCAGG NGAACTAAAT ATATTATTAT TTATCCGGTT TTCATC 176

<210> 438
<211> 465
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(465)
<223> 5' terminal sequence. Homo sapiens selectin P, granule membrane protein CD62, SELP

<400> 438
NGGAACATAT GGAGTTTTTA CA AACGCTGC ATTTGACCCG AGTCCTTAAG AGACCTGTCC 60
TTTTCCTGGT CTCCTCATTC AGCCTCCATA TGATCCTGTT GTGAACATCA AGTTTCCTGC 120
TACACTGGAC TTAACTATAA TGCATTTGCT GCAGGTTTCC ATAAACACCC ATGANTCAAA 180
GACATGGAAT TACCTTAGAT TAGCTCTGGA CCAGCCTGTT GGACCCGCTC TGGACCAACC 240
CTGTTTCCTG AGTTTGGGAT TGTGGTACAA TCTCAAATTC TCAACCTACC ACCCCTTCCT 300
GTCCCACCTC TTCTCTTCCT GTAACACAAG CCACAGAAGC CAGGAGCAAA TGTTTCTGCA 360
GTAGTCTCTG TGCTTTGACT CACCTGTTAC TTGAAATACC AGTGAACCAA AGAGACTGGA 420
GCATCTGGAC TTNACAAGAA GACCAGACTT GTGGAGANAT TAA AA 465

<210> 439
<211> 396
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(396)
<223> 3' terminal sequence. Homo sapiens selectin P, granule membrane protei n CD62, SELP

<400> 439
GAAAATCCTT TNAATTACGN ATTTNAANAT TGGNCTTTGG GNCATTTGAG GGACAGTGAC 60
TGGGGGCAGG AAGGCCCACG GNGACATGTG GCCTTCTAGC TTNATNCTTG GCCTTCTGCA 120
GCCTCTGGGG CCATCCAGAG GACTCTCTGG AAGCCTCAGA GCAGAGGNCC AAGAGGCCTC 180
ATCAACAGCA ACCANTGGAG ACTCCAGAAG ATGCTACAGG ANTTNCTCCC AATTAGAGAT 240
GCCACCTGTT TNCCAACAAA GTGGAGAAAA CCTTCCTNNA ATCAAAAANT AAAGAGGTNT 300
TTCNATTTCT CCACAGTTTG GCCTCCTTGT GAGTCAGATG NTCCAGTCTC TTTGGNNCAC 360
TGGTATTTCA AGTAACAGGT GAGNNAAAGG ANAGAG 396

<210> 440
<211> 337
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(337)
<223> 5' terminal sequence. Human interleukin 3 receptor (hIL -3Ra).

<400> 440
AAAGGCTCAG CAGTTGAC CT GGGACCTTAA CAGAAATGTG ACCGATATCG AGTGTGTTAA 60
AGACGCCGAC TATTCTATGC CGGCAGTGAA CAATAGCTAT TGCCAGTTTG GAGCAATTTC 120
CTTATGTGAA GTGACCAACT ACACCGTCCG AGTGGCCAAC CCCCCATTCT CCACGTGGAT 180
CCTCTTCCCT GAGAACAGTG GGAAGCCTTT GGCAGGTGCG GAGAATCTGA CCTGCTNGAT 240
TCATGACGTT GATTTCTTGA GCTGCAGCTG GGCGGTAGGG CNCGGGGCCC CGCGGGACGT 300
CCAGTACGAC CTGTACTTGA ACGTTNCCAA CAGGNGT 337

<210> 441
<211> 104
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:prim er

<220>
<221> misc_feature
<222> (1)..(104)
<223> 3' terminal sequence. Human interleukin 3 receptor (hIL -3Ra).

<400> 441
TTCCCGCCTC CCAGACCACC AGNTTGNCGT TTTGGNAGNT NTNACCGANG GGGTNTTNCA 60
TGTNAGGGNT NCGGGNAAAN AGTTTNTGAA NCACCAGAAA CCTT 104

<210> 442
<211> 223
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(223)
<223> 5' terminal sequence. Human tumor protein p53 (Li -Fraumeni syndrome) (TP53)

<400> 442
AAGCAATGGA TGATTTGATG CTGTCCCCGG ACGATATTGA ACAATGGTTC ACTGAAGACC 60
CAGGTCCAGA TGAAGCTCCC AGAATGCCAG AGNTGNCTCC CCGCGTGGCC CCTGCACCAG 120
CAGCTCCTAC ACCGGCNGCC CCTGCACCAG CCCCCTCCTG GCCCCTGTCA TCTTCTGTCC 180
CTTCCCAGAN AACCTACCAG GGCAGCTACG GTTTCCGTCT G GG 223

<210> 443

<211> 223
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(223)
<223> 5' terminal sequence. Tumor protein p53
(Li-Fraumeni syndrome) (TP53) gene.

<400> 443
aagcaatgga tgatttgatg ctgtccccgg acgatattga acaatggttc actgaagacc 60
caggtccaga tgaagctccc agaatgccag agntgnctcc ccgcgtggcc cctgcaccag 120
cagctcctac accggcngcc cctgcaccag ccccctcctg gcccctgtca tcttctgtcc 180
cttcccagan aacctaccag ggcagctacg gtttccgtct ggg

<210> 444
<211> 343
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(343)
<223> 3' terminal sequence.

<220>
<221> misc_feature
<222> (1)..(343)
<223> v-erb-b2 avian erythroblastic leukemia viral
oncogene homolog 2 (neuro/glioblastoma derived
oncogene homolog) (ERBB2) gene.

<400> 444
caaggggctg caaactnncc cacacatgac cccagccctc tacagcggta cagtgaggac 60
cccacagtac ccctgccctc tgagactgat ggctacgttg ccccccctgac ctgcagcccc 120
cagcctgaat atgtgaacca gccagatgtt cggccccagc ccccttcgcc ccgagaggcc 180
ctctgcctgc tgcccgacct gctggtgcca ctctggaaag gcccaagact ctctccccag 240
ggaagaatgg ggtcgtcaaa gagtttttgc cttt gggggt gccgtgggag aaccccgagt 300
attgacaccc caggggaggg agcttgccct tcagccccac ctt 343

<210> 445
<211> 309
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(309)
<223> 3' terminal séquence.

<220>
<221> misc_feature
<222> (1)..(309)
<223> zinc finger protein 144 (Mel -18) (ZNF144) gene.

<400> 445
ccgccccca cccccaaggt gganagagct ggggaaagta gaagaggtgg aaaaaagggc 60
ccagaaaaag tggaaggagt ggagaggctt ag ctggaaga agggagaggg tccctggcct 120
caagttaagg ggggcacggg agcgccnttg acagtcatct tgcgcccccc gctggtngaa 180
ganggtttct tcaggcagtt caagctaccc ccgttngcan ctttngnngc cccacttgct 240
ntcgaagggg ganttgggna ngtagggtng gtngcttgan gcccatngga actnggaaaa 300
ccatnggat 309

<210> 446
<211> 268
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(268)
<223> 3' terminal sequenc e.

<220>
<221> misc_feature
<222> (1)..(268)
<223> MAP/microtubule affinity -regulating kinase 3
(MARK3) gene.

<400> 446
attatcttgt gaatctactt agaaaaacac acacaagcaa tgttcacaac tataaattta 60
aacctttttgc actaaaaaaa cacaaaacaa caaacacaan accacaggca tgaactgtaa 120
acctgtatta actntgaact ggtcttaagg ttaattctta gcngtcattc agtattttcc 180
tccttggcaa ctgtaatgtt ttngcaccgg ntgatctccc gcnggggggta ctagtaatga 240
ctggctgccc gtgtagggag atgcttcc 268

<210> 447
<211> 169
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(169)
<223> 5' terminal sequence.

<220>
<221> misc_feature
<222> (1)..(169)
<223> MAP/microtubule affinity -regulating kinase 3
(MARK3) gene.

<400> 447

gaacactgat ggaaatgtat agaataatat ttaggcaata acgtctgcat cttctaaatc 60
atgaaattaa agtctgagga cgagagcacg nctgggngcg aaantntgcc ttttttntac 120
ggatgcacta cantaaagan gtgcanccta tncgnccccc gccctactt 169

<210> 448
<211> 393
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(393)
<223> 3' terminal sequence.

<220>
<221> misc_feature
<222> (1)..(393)
<223> EST N68536 MAX-interacting protein 1 (MXI1) gene.

<400> 448
aagtaattaa gggtagttaa attatttaaa gtatacaaag tccaaacagc caggggtaag 60
gtctccaaga ggccttccca gggtaaggga gagggccaca agggaacctt ggagtttgaa 120
agacaaaggg aacacatgac atcaaagtgc aggctagaaa tttcacttag aagaaaataa 1 80
cattactgaa aatattcgta agagtaacaa tagcacatgc acagtgggac tgtgaggaag 240
agagagactg cctgtaggaa aatggaagca aatctttaca ttaaaatgag acaagtgctg 300
aacttactat gttaactatg atagtgtgtc tacnatagat atcncgatgg ttaaaagctg 360
gtaaaaggta atggttctca aaaccnaaa a tag 393

<210> 449
<211> 217
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(217)
<223> 5' terminal sequence.

<220>
<221> misc_feature
<222> (1)..(217)
<223> EST R81126 lymphotoxin beta receptor (LTBR) gene.

<400> 449
ttaccntggt atctcctact gtagtatgag gaagaatggc tgttaatgta ttttttgaat 60
tctggnctca cctttgtctc agctaaatgt agccgcatcc gggacacagt ttgtgccaca 120
tgtgccgaga attcctacaa cgagc actgg aactacctga ccatctgcca nctgtgccgc 180
ccctgtgacc cagtgatggg cctcgnctga gantgcc 217

<210> 450
<211> 157
<212> ADN

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(157)
<223> 5' terminal sequence

<220>
<221> misc_feature
<222> (1)..(157)
<223> (POU2F2) gene.

<400> 450
nattcggcaa cgnggaaagg aaagaaacta accaacaaaa gagaaaacca aaaataatca 60
caacagaaac cagctgcccc aaaggaggcc agtngtnggg acgcagaggg tcc tcagagc 120
aggagtnaca agggaggaaa gaccaaaaaa acaacca 157

<210> 451
<211> 282
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(282)
<223> 5' terminal sequence.

<220>
<221> misc_feature
<222> (1)..(282)
<223> caspase 4, apoptosis-related cysteine protease
(CASP4) (ex CASP1)

<400> 451
gagaatctga cagccaggga tatggagtca gcgctgaggg catttgctac cagaccagag 60
cacaagtcct ctgacagcac attcttggta ctcatgtctc atggcatcct ggagggaatc 120
tgcggaactg tgcatgatga gaaaaaacca gatgtgctgc tttatgacac catcttccag 180
atattcaaca accgcaactt gcctcagtct ngaaggacaa acccaaggtc atcattgtnc 240
agggcttgca gagggtgcaa accttggggg aantttgggg tc 282

<210> 452
<211> 424
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(424)
<223> 5' terminal sequence

<220>
<221> misc_feature
<222> (1)..(424)
<223> syndecan 1 (SDC1) (ex HRB)

<400> 452
ttgcttttng caaaactcta cttaatccaa tnggtttttc cctgtacagt agattttcca 60
aatgtaataa actttaatat aaagtagtcc tgtgaatgcc actgccttcg cttcttgcct 120
ctgtgctgtg tgtgacgtga ccggactttt ctgcaaacac caacatgttg ggaaacttgg 180
ctcgaatctc tgtgccttcg tctttcccat ggggagggga ttctggttcc agggtccctc 240
tgtgtatttg ctttttttgtt ttggctgaaa ttctcctgga ngtcggtagg ttcagccaag 300
gttttataag ggctgatgtc aatttnctgt gtttgccaan ttccaagccc catcttncta 360
aatgggcaaa aggaaggtgg gatgggcccc agcnacagct ttgnaccc ga gggctnttgg 420
gtca 424

<210> 453
<211> 435
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(435)
<223> 5' terminal sequence

<220>
<221> misc_feature
<222> (1)..(435)
<223> Itegrin, beta 2 (antigen CD18 (p95), lymphocyte
function-associated antigen 1; macrophage antigen
1 (mac-1) beta subunit) (ITGB2)

<400> 453
aggagtgccc cggctgcccc tcaccct gtg gcaagtacat ctcctgcgcc gagtgcctga 60
agttcgaaaa gggccccctnt ggaagaactg cagcgcggcg tgtccgggcc tgcagctgtc 120
gaacaacccc gtgaagggca ggacctgcaa ggagagggac tcagagggct gctgggtggc 180
ctacacgctg gagcagcagg acgggatgga ccgctacctc atctatgtgg atgagagccg 240
agagtgtgtg gcaggcccca acatcgccgc catcgtcggg ggcaccgtgg gcaggcatcg 300
tgctgatcgg cattctcctg ctggtcatct gggaaggctc tgatccacct gagcgacctc 360
cgggagttac aggcgttttg agnaggagaa gctcaagtcc cagtnggaac aatgattatt 420
ccctttttca agagc 435

<210> 454
<211> 544
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(544)

<223> 5' terminal sequence

<220>
<221> misc_feature
<222> (1)..(544)
<223> Protein phosphatase 1, catalytic subunit, alpha
isoform (PPP1CA) (ex MGST1)

<400> 454
gtgtgaccag acatgcaacc gncatctatg gtttctacgn atgnagtgnc aagcagnacg 60
nctnacaaca tcaaactgtg gnaaaacctt cactgnactg ncttcaactg ncctgnccca 1 20
tcgcggncca tagtggacgt aaaagatctt ctgnctgncc acggaggcct gttccccgga 180
cctgncagtt ctatggnagc agattcggcg ggatcatgcg gcccacagat gtgtcctgta 240
ccaggggcct gctgtgtgac ctgctgtggt ctgaccctga caaggacgtg cagggctggg 300
gcgagaacga ccgtgggcgt ctcttttac c tttggagccg aggtggtggc caagttcctc 360
cacaagcacg acttggacct catctgccga gcacaccagg ttgtagaaga cggctacgag 420
ttctttgcca agcggcantt ggtgacactt ttctcagctt ccaactactg ttgcgagttt 480
nacaatgctt gcgccatgat gagtgtgacg agaccctatg tgcttttcag atcttaagcc 54 0
gccn 544

<210> 455
<211> 344
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(344)
<223> 3' terminal se quence

<220>
<221> misc_feature
<222> (1)..(344)
<223> protein phosphatase 2 (formerly 2A), catalytic
subunit,alpha isoform (PPP2CA)

<400> 455
actgcggtga gagccagcgg ccagcgccac cncaacagcc gccagaagna cacgaggaac 60
cggcggcggc gngtgcgngt aggcccgtg n gcggtgncgg cgcgggagga gccggannca 120
gccggcnggg gcgggnggca ncanggacga gaaggngnnc accaaggagc tggaccagng 180
gaacgagcag cngaacgagn gcaagcagcn gnccgagncc caggncaaga gccncagcga 240
gaangcnaaa gaaanccnga caaaagaanc caacgngcaa gaggnncgan gnccagnnac 30 0
ngnccgngga gangngcang ggcaannnca ngaacccatg gaac 344

<210> 456
<211> 514
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(514)
<223> 5' terminal se quence

<220>
<221> misc_feature
<222> (1)..(514)
<223> S100 calcium-binding protein A11 (calgizzarin)
(S100A11)

<400> 456
cagcctcccg cgcctcgctc agctccaaca tggcaaaaat ctccagccct acagagactg 60
agcggtgcat cgagtccctg attgctgtct tccagaagta tgctggaa ag gatggttata 120
actacactct ctccaagaca gagttcctaa gcttcatgaa tacagaacta gctgccttca 180
caaagaacca gaaggaccct ggtgtccttg accgcatgat gaagaaactg gacaccaaca 240
gtgatggtca gctagatttc tcagaatttc ttaatctgat tggtggccta gctatggctt 300
gccatggact ccttcctcaa ggctgtccct tcccagaagc gggacctgga gggacccctt 360
gggccctggg cctttcaaac ccacccccctn ttcctttcca gcctttctgt tcatcatntt 420
ccacagccca cccttnnctg gaggcacatt aaccacctna tggtagggtn ccaactggtc 480
attagttatt aaaggnaatg tnaatttttt ttaa 514

<210> 457
<211> 359
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(359)
<223> 5' terminal sequence

<220>
<221> misc_feature
<222> (1)..(359)
<223> Granzyme A (granzyme 1, cytotoxic
T-lymphocyte-associated serine esterase 3) (GZMA)

<400> 457
gctggacgtc atcaacaagc attcattcaa caacttccgc ctgcgagtgg ggttgaacca 60
tggacccgta gtagctggag ttattggggc ccagaagccg caatatgaca tttggggcaa 120
cacagtgaac gtggccagcc gcatggagag tacaggagtc cttggcaaaa tccaagtgac 180
tgaggagaca gcatgggccc tacagtccct gggctacacc tgctacagcc nggggtgtca 240
tcanggtgaa aggcaaaggg cagctctgca cctacttcct gaacacagac ttgacacgaa 300
ctggacctcc ttcagctacc ctaggctgag attgcactcg cct tnctaag aacctnaat 359

<210> 458
<211> 1251
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1251)
<223> 3' terminal sequence

<220>

<221> misc_feature
<222> (1)..(1251)
<223> endothelin 1 (EDN1)

<400> 458
ggagctgttt acccccactc taataggggt tcaatataaa aagccggcag agagctgtcc 60
aagtcagacg cgcctctgca tctgcgccag gcgaacgggt cctgcgcctc ctgcagtccc 120
agctctccac caccgccgcg tgcgcctgca gacgctccgc tcgctgcctt ctctcctggc 180
aggcgctgcc ttttctcccc gttaaagggc acttgggctg aaggatcgct ttgagatctg 240
aggaacccgc agcgctttga gggacctgaa gctgtttttc ttcgttttcc tttgggttca 300
gtttgaacgg gaggtttttg atccctttt ttcagaatgg attatttgct catgattttc 360
tctctgctgt ttgtggcttg ccaaggagct cc agaaacag cagtcttagg cgctgagctc 420
agcgcggtgg gtgagaacgg cggggagaaa cccactccca gtccaccctg gcggctccgc 480
cggtccaagc gctgctcctg ctcgtccctg atggataaag agtgtgtcta cttctgccac 540
ctggacatca tttgggtcaa cactcccgag cacgttgttc cgtatggact tggaagccct 600
aggtccaaga gagccttgga gaatttactt cccacaaagg caacagaccg tgagaataga 660
tgccaatgtg ctagccaaaa agacaagaag tgctggaatt tttgccaagc aggaaaagaa 720
ctcagggctg aagacattat ggagaaagac tggaataatc ataagaaagg aaaagactgt 780
tccaagcttg ggaaaaagtg tatttatcag cag ttagtga gaggaagaaa aatcagaaga 840
agttcagagg aacacctaag acaaaccagg tcggagacca tgagaaacag cgtcaaatca 900
tcttttcatg atcccaagct gaaaggcaag ccctccagag agcgttatgt gacccacaac 960
cgagcacatt ggtgacagac ttcggggcct gtctgaagcc atagcctcca cggagagccc 1020
tgtggccgac tctgcactct ccaccctggc tgggatcaga gcaggagcat cctctgctgg 1080
ttcctgactg gcaaaggacc agcgtcctcg ttcaaaacat tccaagaaag gttaaggagt 1140
tcccccaacc atcttcactg gcttccatca gtggtaactg ctttggtctc ttctttcatc 1200
tggggatgac aatggacctc tcagcagaaa caca cagtca cattcgaatt c 1251

<210> 459
<211> 2145
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(2145)
<223> 3' terminal séquence

<220>
<221> misc_feature
<222> (1)..(2145)
<223> Protein tyrosine phosphatase, non -receptor type 6
(PTPN6)

<400> 459
cggcagaact gggaccaccg ggggtggtga ggcggcccgg cactgggagc tgcatctgag 60
gcttagtccc tgagctctct gcctgcccag actagctgca cctcctcatt ccctgcgccc 120
ccttcctctc cggaa gcccc caggatggtg aggtggtttc accgagacct cagtgggctg 180
gatgcagaga ccctgctcaa gggccgaggt gtccacggta gcttcctggc tcggcccagt 240
cgcaagaacc agggtgactt ctcgctctcc gtcagggtgg gggatcaggt gacccatatt 300
cggatccaga actcagggga tttctatgac ctgtatggag gggagaagt t tgcgactctg 360
acagagctgg tggagtacta cactcagcag cagggtgtgg tgcaggaccg cgacggcacc 420
atcatccacc tcaagtaccc gctgaactgc tccgatccca ctagtgagag gtggtaccat 480
ggccacatgt ctggcgggca ggcagagacg ctgctgcagg ccaagggcga gccctggacg 540
tttcttgtgc gtgaga gcct cagccagcct ggagacttcg tgctttctgt gctcagtgac 600
cagcccaagg ctggcccagg ctccccgctc agggtcaccc acatcaaggt catgtgcgag 660
ggtggacgct acacagtggg tggtttggag accttcgaca gcctcacgga cctggtggag 720

catttcaaga agacggggat tgaggaggcc tcaggcgcct ttgtctacct gcggcagccg 780
tactatgcca cgagggtgaa tgcggctgac attgagaacc gagtgttgga actgaacaag 840
aagcaggagt ccgaggatac agccaaggct ggcttctggg aggagtttga gagtttgcag 900
aagcaggagg tgaagaactt gcaccagcgt ctggaagggc aacggccaga gaacaagggc 960
aagaaccgct acaagaa cat tctccccttt gaccacagcc gagtgatcct gcagggacgg 1020
gacagtaaca tccccgggtc cgactacatc aatgccaact acatcaagaa ccagctgcta 1080
ggccctgatg agaacgctaa gacctacatc gccagccagg gctgtctgga ggccacggtc 1140
aatgacttct ggcagatggc gtggcaggag aacagccgtg tcatcgtcat gaccacccga 1200
gaggtggaga aaggccggaa caaatgcgtc ccatactggc ccgaggtggg catgcagcgt 1260
gcttatgggc cctactctgt gaccaactgc ggggagcatg acacaaccga atacaaactc 1320
cgtaccttac aggtctcccc gctggacaat ggagacctga ttcgggagat ctggcattac 1380
cagtacctga gctggccc ga ccatggggtc cccagtgagc ctgggggtgt cctcagcttc 1440
ctggaccaga tcaaccagcg gcaggaaagt ctgcctcacg cagggcccat catcgtgcac 1500
tgcagcgccg gcatcggccg cacaggcacc atcattgtca tcgacatgct catggagaac 1560
atctccacca agggcctgga ctgtgacatt gacatccaga agaccatcca g atggtgcgg 1620
gcgcagcgct cgggcatggt gcagacggag gcgcagtaca agttcatcta cgtggccatc 1680
gcccagttca ttgaaaccac taagaagaag ctggaggtcc tgcagtcgca gaagggccag 1740
gagtcggagt acgggaacat cacctatccc ccagccatga agaatgccca tgccaaggcc 1800
tcccgcacct cgtccaaac a caaggaggat gtgtatgaga acctgcacac taagaacaag 1860
agggaggaga aagtgaagaa gcagcggtca gcagacaagg agaagagcaa gggttccctc 1920
aagaggaagt gagcggtgct gtcctcaggt ggccatgcct cagccctgac cctgtggaag 1980
catttcgcga tggacagact cacaacctga acctaggagt gccccattct tt tgtaattt 2040
aaatggctgc atcccccccа cctctccctg accctgtata tagcccagcc aggccccagg 2100
cagggccaac ccttctcctc ttgtaaataa agccctggga tcact 2145

<210> 460
<211> 2149
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artif icial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(2149)
<223> 3' terminal sequence

<220>
<221> misc_feature
<222> (1)..(2149)
<223> Transcription factor AP-4 (activating enhancer
binding protein 4) (TFAP4)

<400> 460
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caccagggca gccgagagac ctccctcccg cccctcccat gcccgcctcc ctcccctcgc 120
cgccgccgcc gccgccagca tctgggaccg gccgattctg cacctccgtc cggcgctgcc 180
ctttgattcg gatttccatc ttgcattctc cggctgatcg cgggacctgg ct cgtgcaga 240
ggaggggggc cgatcgctat ggagtatttc atggtgccca ctcagaaggt gccctctttg 300
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ccactaaccc ccgagactca gcgggaccag gagcggcgga ttcggcggga gatcgccaac 420
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<210> 461
<211> 6478
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(6478)
<223> 3' terminal sequence

<220>
<221> misc_feature
<222> (1)..(6478)
<223> Cyclin D2 (CCND2)

<400> 461
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ctgccctcac ctctcccccg aaaaccccct atttagccaa aggaagg agg tcaggggaac 180
gctctcccct ccccttccaa aaaacaaaaa cagaaaaacc cttttccagg ccggggaaag 240
caggagggag aggggccgcc gggctggcca tggagctgct gtgccacgag gtggacccgg 300
tccgcagggc cgtgcgggac cgcaacctgc tccgagacga ccgcgtcctg cagaacctgc 360
tcaccatcga ggag cgctac cttccgcagt gctcctactt caagtgcgtg cagaaggaca 420
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aactcaaaga gaccagcccg ctgaccgcgg agaagctgtg catttacacc gacaactcca 660
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<210> 462
<211> 3490
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(3490)
<223> 3' terminal sequence

<220>
<221> misc_feature
<222> (1)..(3490)
<223> Junction plakoglobin (JUP)

<400> 462
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cccccatttc ccgcacatgg tgtgggggggc tgggggaggt ccaagcagag tgttttatta 3420
ttatcgcttt atgtttttgg ttattggttt ttttgtatag accaaagcaa agaaaataaa 3480
aataacacag 3490

<210> 463
<211> 1355
<212> ADN
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature
<222> (1)..(1355)
<223> 3' terminal sequence

<220>
<221> misc_feature
<222> (1)..(1355)
<223> Growth arrest and DNA-damage-inducible, alpha (GADD45A)

<400> 463
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cgaggcgagg tccggggagc gagcgagcaa gcaaggcggg aggggtggcc ggagctgcgg 120
cggctggcac aggaggagga gcccgggcgg gcgagggggcg gccggagagc gccagggcct 180
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cctggaggaa gtgctcagca aagccctgag tc agcgcacg atcactgtcg gggtgtacga 420
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ttgcagatgg aaagaggtga aaatgaagaa ggaagctgtg ttgaaacaga aaaataagtc 1020
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ggtatttttg gtttatatgc cctcaagtaa aagaaaagcc gaaagggtta atcatatttg 1200
aaaaccatat tttattgtat tttgatgaga tatt aaattc tcaaagtttt attataaatt 1260
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ccagatgggg tccagcgggg tcttgtggga gagattatca agcgttttga gcagaaagga 180
ttccgccttg ttggtctgaa attcatgcaa gcttccgaag atcttctcaa ggaacactac 240
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gtagttgcca tggtctggga ggggctgaat gtggtgaaga cgggccgagt catgctcggg 360
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ggaccaggct gtaggaaatc tagttattta caggaacttc atcataattt g gagggaagc 660
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<223> vascular endothelial growth factor B (VEGFB)m

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agatgtgtat actcgcgcta cctgccagcc ccgggaggtg gtggtgccct tgactgtgga 180
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tggctgctgc cctgacgatg gcctggagtg tgtgcccact gggcagcacc aagtccggat 300
gcagatcctc atgatccggt acccgagcag t cagctgggg gagatgtccc tggaagaaca 360
cagccagtgt gaatgcagac ctaaaaaaaa ggacagtgct gtgaagccag acagggctgc 420
cactccccac caccgtcccc agccccgttc tgttccgggc tgggactctg cccccggagc 480
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acccagcacc accagcgccc tgacccccgg acctgccgcc gccgctgccg acgccgcagc 600
ttcctccgtt gccaagggcg gggcttagag ctcaacccag acacctgcag gtgccggaag 660
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<222> (1)..(1039)
<223> 3' terminal sequence

<220>
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<222> (1)..(1039)
<223> Laminin receptor 1 (67kD, ribosomal protein SA)
(LAMR1)

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ggaggatgtc cttaa gttcc ttgcagcagg aacccactta ggtggcacca atcttgactt 180
ccagatggaa cagtacatct ataaaaggaa aagtgatggc atctatatca taaatctcaa 240
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tgatgtcagt gttatatcct ccaggaatac tggccagagg gctgtgctg a agtttgctgc 360
tgccactgga gccactccaa ttgctggccg cttcactcct ggaaccttca ctaaccagat 420
ccaggcagcc ttccgggagc cacggcttct tgtggttact gaccccaggg ctgaccacca 480
gcctctcacg gaggcatctt atgttaacct acctaccatt gcgctgtgta acacagattc 540
tcctctgcgc tatgtg gaca ttgccatccc atgcaacaac aagggagctc actcagtggg 600
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agaagagcag gctgctgctg agaaggcagt gaccaaggag gaatttcagg gtgaatggac 780
tgctcccgct cctgagttca ctgctactca gcctgaggtt gcagactggt ctgaaggtgt 840
acaggtgccc tctgtgccta ttcagcaatt ccctactgaa gactggagcg ctcagcctgc 900
cacggaagac tggtctgcag ctcccactgc tcaggccact gaatgggtag gagcaaccac 960
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<210> 468
<211> 240
<212> ADN
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<220>
<221> misc_feature
<222> (1)..(240)
<223> 3' terminal sequence

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<222> (1)..(240)
<223> Chorionic somatomammotropin hormone 1 (placental
lactogen) = LACTOGEN Precursor

<400> 468
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tccaggctcc cggaacgtcc ctgatcctgg nttttgncct nctctnactg ccctggnttn 180
aanaagctng tgccntccaa ancgttccgt tatccagggt ttttgaccac gctatgctnc 240

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
13 June 2002 (13.06.2002)

PCT

(10) International Publication Number
WO 02/046467 A3

(51) International Patent Classification[7]: C07K 14/47, C12Q 1/68

(21) International Application Number: PCT/IB01/02811

(22) International Filing Date: 7 December 2001 (07.12.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/254,090	8 December 2000 (08.12.2000)	US
10/007,926	7 December 2001 (07.12.2001)	US

(71) Applicants *(for all designated States except US)*: **IPSOGEN** [FR/FR]; 232 Boulevard Sainte-Marguerite, F-13273 Marseille Cedex 09 (FR). **INSERM** [FR/FR]; 101, rue de Tolbiac, F-75654 Paris Cédex 13 (FR). **INSTITUT PAOLI-CALMETTES - IPC** [FR/FR]; 232 Boulevard Sainte Marguerite, F-13273 Marseill4 Cedex 9 (FR).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BERTUCCI, François** [FR/FR]; Le Sully, Parc de la Cadenelle, 122, rue du Commandant Rolland, F-13008 Marseille (FR). **HOULGATTE, Rémi** [FR/FR]; 31, Boulevard Lombard, F-13015 Marseille (FR). **BIRNBAUM, Daniel** [FR/FR]; 9, rue Baldacchini, La Croix-du-Sud, F-13009 Marseille (FR). **NGUYEN, Catherine** [FR/FR]; 8 Boulevard de la Kabylie, F-13016 Marseille (FR). **VIENS, Patrice** [FR/FR]; La Palmeraie Borely, Entrée A, 70, avenue d'Haïfa, F-13008 Marseille (FR). **FERT, Vincent** [FR/FR]; 971, chemin du Tardinaou, F-13190 Allauch (FR).

(74) Agents: **BREESE, Pierre** et al.; Breese-Majerowicz, 3, avenue de l'Opéra, F-75001 Paris (FR).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
28 August 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 02/046467 A3

(54) Title: GENE EXPRESSION PROFILING OF PRIMARY BREAST CARCINOMAS USING ARRAYS OF CANDIDATE GENES

(57) Abstract: The invention relates to a polynucleotide library useful in the molecular characterization of a carcinoma, the library including a pool of polynucleotide sequences of subsequences thereof wherein the sequences of subsequences are overpressed in tumor cells, further wherein the sequences of subsequences correspond substantially to any of the polynucleotide sequences set forth in any of SEQ ID NOS: 1-468 or the complement thereof. The invention relates also to polynucleotides arrays useful to differentiate tumor cells from normal cells comprising combinations of selected immobilized polynucleotide sequences sets.

INTERNATIONAL SEARCH REPORT

Int il Application No
PCT/IB 01/02811

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/47 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
SEQUENCE SEARCH, BIOSIS, MEDLINE, EPO-Internal, WPI Data, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BERTUCCI F ET AL: "EXPRESSION SCANNING OF AN ARRAY OF GROWTH CONTROL GENES IN HUMAN TUMOR CELL LINES" ONCOGENE, BASINGSTOKE, HANTS, GB, vol. 18, no. 26, 1999, pages 3905-3912, XP000979482 ISSN: 0950-9232 the whole document ---	1-42
X	PEROU C M ET AL: "Molecular portraits of human breast tumours." NATURE. ENGLAND 17 AUG 2000, vol. 406, no. 6797, 17 August 2000 (2000-08-17), pages 747-752, XP002235791 ISSN: 0028-0836 the whole document ---	1-42

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[X] Further documents are listed in the continuation of box C.

[ ] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
25 March 2003	02.07.03

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Luzzatto, E

Form PCT/ISA/210 (second sheet) (July 1992)

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
X	HOCH R V ET AL: "GATA-3 is expressed in association with estrogen receptor in breast cancer." INTERNATIONAL JOURNAL OF CANCER. JOURNAL INTERNATIONAL DU CANCER. UNITED STATES 20 APR 1999, vol. 84, no. 2, 20 April 1999 (1999-04-20), pages 122-128, XP001146467 ISSN: 0020-7136	1-5,8,9, 12,13, 16,17, 20,21, 24-42
Y	the whole document	6,7,10, 11,14, 15,18, 19,22,23

Y	DATABASE MEDLINE 'Online! US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; July 1997 (1997-07) SHAW-BRUHA C M ET AL: "Expression of the prolactin gene in normal and neoplastic human breast tissues and human mammary cell lines: promoter usage and alternative mRNA splicing." Database accession no. NLM9266104 XP002235792 abstract & BREAST CANCER RESEARCH AND TREATMENT. NETHERLANDS JUL 1997, vol. 44, no. 3, July 1997 (1997-07), pages 243-253, ISSN: 0167-6806	6,7

Y	GRAHAM J D ET AL: "Regulation of the expression and activity by progestins of a member of the SOX gene family of transcriptional modulators." JOURNAL OF MOLECULAR ENDOCRINOLOGY. ENGLAND JUN 1999, vol. 22, no. 3, June 1999 (1999-06), pages 295-304, XP000995364 ISSN: 0952-5041 the whole document	10,11, 14,15, 18,19

Y	MAGUIRE T M ET AL: "High levels of cathepsin B predict poor outcome in patients with breast cancer." INTERNATIONAL JOURNAL OF BIOLOGICAL MARKERS, vol. 13, no. 3, July 1998 (1998-07), pages 139-144, XP001118861 ISSN: 0393-6155 abstract	22,23

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MATHOULIN-PORTIER M P ET AL: "Prognostic value of simultaneous expression of p21 and mdm2 in breast carcinomas treated by adjuvant chemotherapy with antracyclin." ONCOLOGY REPORTS. GREECE 2000 MAY-JUN, vol. 7, no. 3, May 2000 (2000-05), pages 675-680, XP009007614 ISSN: 1021-335X the whole document ---	1-42
A	FAIRCHILD C R ET AL: "ISOLATION OF AMPLIFIED AND OVEREXPRESSED DNA SEQUENCES FROM ADRIAMYCIN-RESISTANT HUMAN BREAST CANCER CELLS" CANCER RESEARCH, vol. 47, no. 19, 1987, pages 5141-5148, XP009006931 ISSN: 0008-5472 the whole document ---	1-42
A	VARGAS-ROIG L M ET AL: "c-erbB-2 (HER-2/neu) protein and drug resistance in breast cancer patients treated with induction chemotherapy." INTERNATIONAL JOURNAL OF CANCER. JOURNAL INTERNATIONAL DU CANCER. UNITED STATES 20 APR 1999, vol. 84, no. 2, 20 April 1999 (1999-04-20), pages 129-134, XP002235684 ISSN: 0020-7136 the whole document ---	1-42
A	PENAULT-LLORCA F ET AL: "Expression of FGF and FGF receptor genes in human breast cancer." INTERNATIONAL JOURNAL OF CANCER. JOURNAL INTERNATIONAL DU CANCER. UNITED STATES 10 APR 1995, vol. 61, no. 2, 10 April 1995 (1995-04-10), pages 170-176, XP009007615 ISSN: 0020-7136 the whole document ---	1-42

-/--

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
A	DATABASE EBI 'Online! Homo sapiens cathepsin B mRNA, complete cds., 20 May 1993 (1993-05-20) CAO L. ET AL.: Database accession no. L16510 XP002235958 abstract & CAO L. ET AL.: "Human gastric adenocarcinoma cathepsin B: isolation and sequencing of full-length cDNAs and polymorphism of the gene" GENE, vol. 139, no. 2, 1994, pages 163-169,	22,23
A	CAFFO O ET AL: "Prognostic value of p21(WAF1) and p53 expression in breast carcinoma: an immunohistochemical study in 261 patients with long-term follow-up." CLINICAL CANCER RESEARCH: AN OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH. UNITED STATES SEP 1996, vol. 2, no. 9, September 1996 (1996-09), pages 1591-1599, XP001121315 ISSN: 1078-0432 the whole document	1-42
T	BERTUCCI FRANÇOIS ET AL: "Gene expression profiles of poor-prognosis primary breast cancer correlate with survival." HUMAN MOLECULAR GENETICS. ENGLAND 15 APR 2002, vol. 11, no. 8, 15 April 2002 (2002-04-15), pages 863-872, XP001146244 ISSN: 0964-6906	

INTERNATIONAL SEARCH REPORT

ational application No.
PCT/IB 01/02811

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 6,7,10,11,14,15,18,19,22-26,28-43 (all partly)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-43 all partially

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-43 (all partially)

Polynucleotide libraries comprising any of SEQ IDs 76-78, which according to table 10 of the application correspond to the GATA-3 gene, method for detecting cancer correlated differentially expressed polynucleoitde sequences or for screening an anti-tumour agent, comprising the step of reacting a polynucleoitde sample from a patient with a probe comprising any of SEQ IDs 76-78.

2. Claims: 1-3, 8-11, 16-27,29,31-43 (all partially)

Polynucleotide libraries comprising any of SEQ IDs 354-355, which according to table 10 of the application correspond to the MYB gene, method for detecting cancer correlated differentially expressed polynucleoitde sequences or for screening an anti-tumour agent, comprising the step of reacting a polynucleotide sample from a patient with a probe comprising any of SEQ IDs 354-355.

3. Claims: 1-3, 8-13,27,29,30,33-43 (partially)

Polynucleotide libraries comprising any of SEQ IDs 322-323, which according to table 10 of the application correspond to the KIAA1075 gene, method for detecting cancer correlated differentially expressed polynucleoitde sequences or for screening an anti-tumour agent, comprising the step of reacting a polynucleotide sample from a patient with a probe comprising any of SEQ IDs 322-323.

Inventions 4-171: subject as in inventions 1-3, however the SEQ IDs are those corresponding to genes 4-171 as listed in table 10.
As to the claims related to each of inventions 4-171, the ISA wishes to draw the applicant's attention to the following:
In view of the number of genes and sequences to which the claims relate, and of the fact that the vast majority of SEQ IDs are mentioned only in some claims and not in others, it becomes unduly burdensome for the ISA to provide for each invention the indication as to which claims are related to it. Should any additional search fees be paid, the clear definition of each invention by means of the SEQ IDs will allow the unambiguous definition of the claims that belong to the invention to be searched.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 6,7,10,11,14,15,18,19,22-26,28-43 (all partly)

The present remarks apply to the only invention searched, i.e. invention 1 (see "Invitation to pay additional fees"). Should further search fees be paid, similar remarks could apply to the further inventions to be searched, leading to an incomplete search also with respect to these inventions.

1) The application relates to genes which are differentially expressed in breast tumour cells compared to normal breast cells (see p. 21, l. 15-p. 22, l. 12). No other cells are analysed for differential gene expression of tumor vs. normal cells. However, claims 33-40 and 42-43 encompass the detection of diffferentially expressed sequences correlated with "a cancer", i.e. they are not limited to breast cancer. Hence, they lack support (Art. 6 PCT) to such an extent as to render a meaningful search over their whole scope impossible.
Claims 33-40 and 42-43 have therefore been searched only insofar as related to breast cancer.

2) Claims 6,10,14,18,22 relate to a very large number of combinations comprising the GATA-3 gene related sequences and at least one other of the second group of sequences to which the said claims relate.
They therefore lack conciseseness (Art. 6 PCT) to such an extent as to render impossible a meaningful search covering all the said combinations.
The search has thus been limited to combinations comprising the GATA-3 related sequences of set 32 (consisting of SEQ IDs 76-78) and those of sets 38, 11 and 14 (SEQ IDs 91-93, 22-24 and 30-31 respectively), these being the first sets mentioned in the various claims in the context of combinations with the GATA-3 gene.
The same applies to claims 7,11,15,19,23-26,28-43 insofar as dependent on the said claims.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.